

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	634	80.9	144	5	Q9BJN0	Q9bjn0 boltenia vi
2	574.5	73.3	179	11	Q9D6E1	Q9d6e1 mus musculus
3	245.5	31.3	139	11	Q9CX13	Q9cxl3 mus musculus
4	203.5	26.0	141	3	Q9P6K6	Q9p6k6 schizosacch
5	186.5	23.8	157	5	Q9VQL3	Q9vql3 drosophila
6	170.5	21.7	137	10	Q8GWT5	Q8gwt5 arabidopsis
7	170	21.7	56	5	Q9SY55	Q9sy55 caenorhabdi
8	164.5	21.0	146	10	Q9C7D7	Q9c7d7 arabidopsis
9	163.5	20.9	166	10	Q9LH48	Q9lh48 arabidopsis
10	159.5	20.3	126	10	Q9LQ18	Q9lq18 arabidopsis
11	141	18.0	92	4	Q9H0X8	Q9h0x8 homo sapien
12	139.5	17.8	455	10	Q9LNB1	Q9lnb1 arabidopsis
13	128	16.3	160	10	Q98RK9	Q98rk9 guillardia
14	122.5	15.6	110	10	Q9LNA7	Q9lna7 arabidopsis
15	122.5	15.6	145	10	Q9SZ74	Q9sz74 arabidopsis
16	90	11.5	249	3	Q9UTD3	Q9utd3 schizosacch

Tue Sep 16 17:51:20 2003

us-09-918-585a-322.rspt

```

OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Stomach;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant I.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohetsuki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
DR EMBL; AK01301; BAB2366.1; -
DR MGD; MGI:1925828; D53003D03RIK.
DR InterPro; IPR003377; Cornichon.
DR Pfam; PF03311; Cornichon; 1.
SQ SEQUENCE 139 AA; 16089 MW; CA76B25D0D8EC091 CRC64;

Query Match 31.3%; Score 245.5; DB 11; Length 139;
Best Local Similarity 38.0%; Pred. No. 2.9e-18;
Matches 52; Conservative 24; Mismatches 60; Indels 1; Gaps 1;

QY 7 AFVYMLALLTAAALFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVPEYLHFAFFCVMF 66
Db 3 AVVFLSLDCCALIFLSVFEIITLSLDCDYINARSCSKLNKWNIPELVGHITVTVLM 62
QY 67 LCAEWLTLGNMPLLAHYHWRVSRPVMSPGPGLYDPTTINADILAYCQKGGCKLAFY 126
Db 63 LVSLHWFIFLLNPLVATNIRFMVPSGNGVDFDTEIHRGQLKSHKMEAMIKLGFY 121
QY 127 LLAPFYLYGMIVLVLS 143
Db 122 LLCFFWLYSMILALIN 138

RESULT 4
Q9P6K6 PRELIMINARY; PRT; 141 AA.
AC Q9P6K6;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Putative er-derived vesicles protein similar to yeast erv14.
GN SPAC30C2.05.
OS Schizosaccharomyces pombe (Fission yeast).
OC Eukaryota; Fungi; Ascomycota; Schizosaccharomycetes;
OC Schizosaccharomycetales; Schizosaccharomycetaceae;
OC Schizosaccharomycetes.
OX NCBI_TaxID=4896;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=972h-;
RA Saunders D., Harris D., Wood V., Rajandream M.A., Barrell B.G.;
RL Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AL355652; CAB90792.1; -
DR GenBank; SPAC30C2.05; -
DR InterPro; IPR003377; Cornichon.
DR D53003D03RIK.

OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant I.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohetsuki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
DR EMBL; AK013789; BAB28996.1; -
DR MGD; MGI:1920228; 2500075G08RIK.
DR InterPro; IPR003377; Cornichon.
DR Pfam; PF03311; Cornichon; 1.
SQ SEQUENCE 179 AA; 21105 MW; B738709483743E82 CRC64;

Query Match 73.3%; Score 574.5; DB 11; Length 179;
Best Local Similarity 60.3%; Pred. No. 6.3e-53;
Matches 108; Conservative 13; Mismatches 23; Indels 35; Gaps 1;

QY 1 NAFTFAAFCYMLALLTAAALFFAIWHIIAFDELKTDYKNPIDQCNTLN----- 49
Db 1 NAFTFAAFCYMLSLVLCALIFFAIWHIIAFDELRTDFKSPIDQCNVPHARLURNERI 60
QY 50 -----PLVLPYELHFAFFCVMFCAEMLTLGLNMLPLLAHY 85
Db 61 CFLLRKRVPPGGRKRRGQQQLVPEYSIHSFLFCIMFLCAQEWLTLGLNVLPLFYH 120
QY 86 IWRVSRPVMSPGPGLYDPTTINADILAYCQKGGCKLAFVLLAPFYLYGMIVLVLS 144
Db 121 FWRYPHCPADSELAYDPVPMNADTLGYCQKAWCKLAFYLLSFFLYLYCMIVTVLSS 179

RESULT 3
Q9CX13 PRELIMINARY; PRT; 139 AA.
AC Q9CX13;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE D53003D03RIK protein.
GN D53003D03RIK.

```

DR Pfam; PF03311; Cornichon; 1.  
DR PROSITE; PS01340; CORNICHON; 1.  
SQ SEQUENCE 141 AA; 16614 MW; C9EBC2A6E89D1B5F CRC64;

Query Match 26.0%; Score 203.5; DB 3; Length 141;  
Best Local Similarity 33.1%; Pred. No. 8.1e-14;  
Matches 47; Conservative 25; Mismatches 55; Indels 15; Gaps 3;

Oy 1 MAFTFAAFYVLLALTLTAALIFFAIWHIIAFDELKTDYKNPDIQCNTLNPLVLPEYLHIA 60  
Db :  
12 LAVTF-----YRLGANMLLIQFCVMFSDEMDYINPDLCKNLNDLWPLISHT 63  
Oy 61 PFCMFLCAAEWLTLGLNPLLAYHIWRVMSRPMGPGLYDPTTIMNADILAYCQKEGW 120  
Db :  
64 LVTLILLGKKWLLFLANLPFLVFH----ANOVIHKTHILDATETFRQ--LGRHKDNF 116  
Oy 121 CKLAFYLLAFFYYLYGMIVLV 142  
Db - :  
117 IKTVFLIMEFTLLYCNWSLI 138

RESULT 5  
ID QSVQL3 PRELIMINARY; PRT; 157 AA.

AC QSVQL3;  
DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
DE 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)  
DE CG17262 protein.  
GN CG17262  
OS Drosophila melanogaster (Fruit fly).  
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
OC Ephydroidea; Drosophilidae; Drosophila.  
NCBI\_TaxID=7227;  
BX [1]  
RN SEQUENCE FROM N.A.  
RC STRAIN=Berkely;  
RX MEDLINE=20196006; PubMed=10731132;  
RA Adams M.D., Celnik S.E., Holt R.A., Evans C.A., Gocayne J.D.,  
RA Ananides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galie R.F.,  
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,  
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,  
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,  
RA Wan K.H., Doyle C., Baxter E.G., Heit G., Nelson C.R., Miklos G.L.G.,  
RA Abril J.P., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,  
RA Balow R.M., Basu A., Bayevdale J., Bayraktaroglu L., Beasley E.M.,  
RA Beson K.Y., Benos P.V., Bertram B.P., Bhattacharya D., Bolshakov S.,  
RA Borokova D., Botchan M.R., Bouck J., Brokstein P., Brotier P.,  
RA Burris K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,  
RA Cherry J.M., Crawley S., Dahlke C., Davenport L.B., Davies P.,  
de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,  
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,  
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferrieria S., Fleischmann W.,  
RA Fiesler C., Gabrielian A.E., Gary N.S., Gelbart W.M., Glasser K.,  
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,  
RA Hartin D., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,  
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,  
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,  
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai X.,  
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,  
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,  
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,  
RA Mount S.M., Moy M., Murphy B., Murphy L., Murzyn D.M., Nelson D.L.,  
RA Nelson D.R., Nelson K.A., Nixon K., Nusser D.R., Pacleb J.M.,  
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,  
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,  
RA Shue B.C., Sidgen-Kiamos I., Simpson M., Skupski M.P., Smith T.,  
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,  
RA Svirskaas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,  
RA Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissenbach J.,  
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,  
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,

RA Zheng X.H., Zhong F.N., Zhou W., Zhou X., Zhu S., Smith H.O.,  
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;  
RT "The genome sequence of Drosophila melanogaster";  
RL Science 287:2185-2195(2000).  
DR EMBL; AE003581; AAFS1153.1; -.  
DR Flybase; FBgn0031499; CGI7262.  
DR InterPro; IPR003377; Cornichon.  
DR Pfam; PF03311; Cornichon; 1.  
SQ SEQUENCE 157 AA; 18430 MW; B9322CE1B06EF627 CRC64;

Query Match 23.8%; Score 186.5; DB 5; Length 157;  
Best Local Similarity 30.2%; Pred. No. 5.6e-12;  
Matches 42; Conservative 29; Mismatches 61; Indels 7; Gaps 3

Oy 6 AAFCYMLALLTLTAALIFFAIWHIIAFDELKTDYKNPDIQCNTLNPLVLPEYLHIAFFCV 65  
Db - :  
7 ATTC--ITLLVYGRIILLIYYVLTADLECDYLNAGCCRRNFVWIPKFGSHALLCVL 64  
Oy 66 FLCAAEWLTLGLNPLLAYHIWRV--MSRPVMSGPGLYDPTTIMNADILAYCQKEGWCKL 123  
Db - :  
65 LLGLGGHWMPDLLNPV--IWLFIYELHQRRDSLGVDPVDITHSRGLLKHLNRNCMIYL 121  
Oy 124 AFYLLAFFYYLYGMIVLV 142  
Db - :  
122 GYFVFMFPFVGLYCLISLI 140

RESULT 6  
ID QSGWT5 PRELIMINARY; PRT; 137 AA.

AC QSGWT5;  
DT 01-MAR-2003 (TrEMBLrel. 23, Created)  
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)  
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
DE Hypothetical protein.  
GN AFIG62880/F16P17.37.  
OS Arabidopsis thaliana (Mouse-ear cress).  
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;  
OC eurosids II; Brassicales; Brassicaceae; Arabidopsids.  
OX NCBI\_TaxID=3702;  
BX [1]  
RN SEQUENCE FROM N.A.  
RC STRAIN=cv. Columbia;  
RA Seki M., Iida K., Satou M., Sakurai T., Akiyama K., Ishida J.,  
RA Nakajima M., Enju A., Kamiya A., Narusaka M., Carninci P., Kawai J.,  
RA Hayashizaki Y., Shinozaki K.,  
RA Arabidopsis thaliana full-length cDNA."  
Submitted (NOV-2002) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AK118647; BAC43243.1; -.  
KW Hypothetical protein.  
SQ SEQUENCE 137 AA; 16442 MW; A59E2E301AB85E8 CRC64;

Query Match 21.7%; Score 170.5; DB 10; Length 137;  
Best Local Similarity 29.2%; Pred. No. 2.4e-10;  
Matches 38; Conservative 30; Mismatches 55; Indels 7; Gaps 2

Oy 10 YMLALLTLTAALIFFAIWHIIAFDELKTDYKNPDIQCNTLNPLVLPEYLHIAFFCV 69  
Db 7 WIISFLITLLGLIVQLISLADLFYINPYDSASRINFVLPESILQQGLCFVYLT 66  
Oy 70 AEWLTLGLNPLLAYHIWRVMSRPMGPGLYDPTTIMNADILAYCQKEGWCKLAFYLIA 129  
Db - :  
67 GHWFMAALLCPVLYYNFHYLSRK-----QHLLDVTEIFN--LLDWEKKKLFLAVIILT 119  
Oy 130 FFYYLYGMIV 139  
Db - :  
120 LFLTIFWLIY 129

RESULT 7  
ID Q95Y55 PRELIMINARY; PRT; 56 AA



```

SQ SEQUENCE 166 AA; 19478 MW; E4D7657A3F1FD77E CRC64;

Query Match      20.9%; Score 163.5; DB 10; Length 166;
Best Local Similarity 25.0%; Pred. No. 1.6e-09;
Matches 32; Conservative 32; Mismatches 57; Indels 7; Gaps 2;

QY 8 FCYMLALLTAALIFFAIIHIIAFDELKTDYKNPIDOCNTLNPLVLPYELIHAFPCVMFL 67
   |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 6 FLNIVSFVSVLAVASVYQVICTLDEADYLNPNPTETRNRLVPIFEILOGSLCLLFL 65

QY 68 CAAEWLTGLNMPLLAYHIWRMSPVMSGPGLYDPTTMMNADILAYCQKEGWCKLAFYL 127
   |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 66 LTWEHVPFLVAVPTVTHAMLYKERY-----LIDVTEVFRG--ISPEKRLRYKLGIVV 118

QY 128 LAFYYLY 135
   |:::|
Db 119 FLFIWVVF 126

RESULT 10
Q9LQ18 ID Q9LQ18 PRELIMINARY; PRT; 126 AA.
AC Q9LQ18;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE F16P17.3 protein.
GN F16P17.3.
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC eurosids II; Brassicales; Brassicaceae; Arabidopsids.
OX NCBI_TaxID=3702;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=cv. Columbia;
RA Sakano H., Liu S.X., Yu G., Lee J.M., Lenz C., Pham P., Toriumi M.,
RA Chin C., Chioi J., Choi E., Chung M., Gonzalez A., Howng B., Liu A.,
RA Vaysberg M., Altafi H., Brooks S., Buehler E., Chao Q., Conn L.,
RA Conway A.B., Hansen N.F., Johnson-Hopson C., Khan S., Kim C., Lam B.,
RA Miranda M., Nguyen M., Palm C.J., Shinn P., Southwick A., Davis R.W.,
RA Ecker J.R., Federspiel N.A., Theologis A.;
RT "The sequence of BAC F16P17 from Arabidopsis thaliana chromosome 1.";
RL Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC011000; AAF75818.1; -.
DR InterPro; IPR003377; Cornichon.
DR Pfam; PF03311; Cornichon; 1.
SQ SEQUENCE 126 AA; 15114 MW; CD61CBF896FC1827 CRC64;

Query Match      20.3%; Score 159.5; DB 10; Length 126;
Best Local Similarity 28.6%; Pred. No. 3.2e-09;
Matches 36; Conservative 29; Mismatches 54; Indels 7; Gaps 2;

QY 10 YMLALLTAALIFFAIIHIIAFDELKTDYKNPIDOCNTLNPLVLPYELIHAFPCVMFLCA 69
   |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 7 WIIISLIIITLGLVYIISLADLEFYINPYDSASRINFVLPESITGLFCFLVYLV 66

QY 70 AEWLTGLNMPLLAYHIWRMSPVMSGPGLYDPTTMMNADILAYCQKEGWCKLAFYLLA 129
   |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 67 GHWFVALLCVLYYNFLYSRK-----QHLDVTEIFN--LLDWEKKRLFLAYIILT 119

QY 130 FFYLY 135
   |:::|
Db 120 LFLTIF 125

RESULT 11
Q9H0X8 ID Q9H0X8 PRELIMINARY; PRT; 92 AA.
AC Q9H0X8;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-MAR-2002 (TrEMBLrel. 22, Last annotation update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
RA Cheuk R., Shinn P., Brooks S., Buehler E., Chao Q., Johnson-Hopson C.,

```

```

DE Hypothetical protein.
GN DKFZP586E1222.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Uterus;
RX MEDLINE=21154917; PubMed=11230166;
RA Wiemann S., Weil B., Wellenreuther R., Gassenhuber J., Glassl S.,
RA Ansong W., Boecher M., Bloeker H., Bauersachs S., Blum H.,
RA Lauber J., Duesterhoeft A., Beyer A., Koehler K., Strack N.,
RA Mewes H.W., Othenwaelder B., Obermaier B., Rampe J., Heubner D.,
RA Wambutt R., Korn B., Klein M., Poustka A.;
RT "Towards a Catalog of Human Genes and Proteins: Sequencing and
RT Analysis of 500 Novel Complete Protein Coding Human cDNAs.";
RL Genome Res. 11:422-435(2001);
DR EMBL; AL136930; CAB66864.1; -.
DR InterPro; IPR003377; Cornichon.
DR Pfam; PF03311; Cornichon; 1.
KW Hypothetical protein.
SQ SEQUENCE 92 AA; 10615 MW; A99857E36401B352 CRC64;

Query Match      18.0%; Score 141; DB 4; Length 92;
Best Local Similarity 34.1%; Pred. No. 2.1e-07;
Matches 28; Conservative 18; Mismatches 36; Indels 0; Gaps 0;

QY 7 AFCYMLALLTAALIFFAIIHIIAFDELKTDYKNPIDOCNTLNPLVLPYELIHAFPCVMF 66
   |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 3 AVVFSLDCCALIFLSVFIITLSLDECDYINARSCCKLNKWKVIPELIGHTIVTVLL 62

QY 67 LCAAEWLTGLNMPLLAYHIWR 88
   |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 63 LMSLHWFFFLNLPVATWNIYR 84

RESULT 12
Q9LNB1 ID Q9LNB1 PRELIMINARY; PRT; 455 AA.
AC Q9LNB1;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE F5011.7.
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC eurosids II; Brassicales; Brassicaceae; Arabidopsids.
OX NCBI_TaxID=3702;
RN [1]
RP SEQUENCE FROM N.A.
RA Chao Q., Brooks S., Buehler E., Johnson-Hopson C., Khan S., Kim C.,
RA Shinn P., Altafi H., Bei Q., Chin C., Chioi J., Choi E., Conn L.,
RA Conway A., Gonzales A., Hansen N., Howng B., Koo T., Lam B., Lee J.,
RA Lenz C., Li J., Liu A., Liu K., Liu S., Mukharsky N., Nguyen M.,
RA Palm C., Pham P., Sakano H., Schwartz J., Southwick A., Thaveri A.,
RA Toriumi M., Vaysberg M., Yu G., Federspiel N.A., Theologis A.,
RA Ecker J.R.;
RT "Genomic sequence for Arabidopsis thaliana BAC F5011 from chromosome
RT I.";
RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA Ecker J.R.;
RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RA Ecker J.R.;
RL Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
RN [4]
RP SEQUENCE FROM N.A.
RA Cheuk R., Shinn P., Brooks S., Buehler E., Chao Q., Johnson-Hopson C.,

```

```

RA Khan S., Kim C., Altafi H., Bei B., Chin C., Chioi J., Choi E.,
RA Conn L., Conway A., Gonzalez A., Hansen N., Howing B., Koo T., Lam B.,
RA Lee J., Lenz C., Li J., Liu A., Liu J., Liu S., Mukharsky N.,
RA Nguyen M., Palm C., Pham P., Sakano H., Schwartz J., Southwick A.,
RA Thaveri A., Toriumi M., Vaysberg M., Yu G., Davis R., Federspiel N.,
RA Theologis A., Ecker J.;
RL Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC025416; AAF79631.1; -.
DR InterPro; IPR003377; Cornichon.
DR Pfam; PF03311; Cornichon; 1.
SQ SEQUENCE 455 AA; 51561 MW; D6CE7BD380BAF0C CRC64;

Query Match      17.8%; Score 139.5; DB 10; Length 455;
Best Local Similarity 33.3%; Pred. No. 1.5e-06;
Matches 28; Conservative 14; Mismatches 37; Indels 5; Gaps 1;

QY 25 IWHITAFDELKTYKNPIDQCNLTNPVLPEYLHAFPCVLMFLCAAEWLTGLNNPLLAY 84
Db 14 IFHLVCLADLEFDYINPYDSASRINSVLPPEFVQVLCVFLYLLTGHFWMTLLCLPLLY 73

QY 85 HIWRYMRPVMSPGGLYDPTIMN 108
Db 74 NFHLYSKR-----QHLVDVTEIFN 92

RESULT 13
Q98RK9 PRELIMINARY; PRT; 160 AA.
AC Q98RK9;
DT 01-OCT-2001 (TrEMBLrel. 18, Created)
DT 01-OCT-2001 (TrEMBLrel. 18, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE Hypothetical 18.7 kDa protein orf160 from chromosome 1 (Hypothetical
DE 18.7 kDa protein orf160 from chromosome 3).
GN ORF160.
OS Guillardia theta (Cryptomonas phi).
OC Eukaryota; Cryptophyta; Cryptomonadaceae; Guillardia.
QX NCBI_TaxID=55529;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21223349; PubMed=11233671;
RA Douglas S., Zauner S., Fraunholz M., Beaton M., Penny S., Deng L.T.,
RA Wu X., Reith M., Cavalier-Smith T., Maier U.G.;
RT "The highly reduced genome of an enslaved algal nucleus.";
RL Nature 410:1091-1096(2001).
DR EMBL; AF165818; AAK39902.1; -.
DR EMBL; AF083031; AAK39731.1; -.
DR EMBL; AF083031; AAK39781.1; -.
DR InterPro; IPR003377; Cornichon.
DR Pfam; PF03311; Cornichon; 1.
KW Hypothetical protein.
SQ SEQUENCE 160 AA; 18743 MW; 56BEDEF0230C7B15 CRC64;

Query Match      16.3%; Score 128; DB 10; Length 160;
Best Local Similarity 29.4%; Pred. No. 8.7e-06;
Matches 32; Conservative 22; Mismatches 47; Indels 8; Gaps 3;

QY 33 ELKTYKNPIDQCNLTNPVLPEYLHAFPCVLMFLCAAEWLTGLNNPLLAYHIWYMSR 92
Db 38 DLSTDTNVEVCDKQVKVEYLAHLFLSTAFVIRGWWIVGFLNPFPIFYNAQW--- 94

QY 93 PVMSPGGLYDPTIMNADILAYCQEGWCKLAFYLLAFYLY-GMIYV 140
Db 95 --YEGHQLDQAQIFN--VLSRELRIKAKSAFFIIIVITWENMIW 139

RESULT 14
Q9LNA7 PRELIMINARY; PRT; 110 AA.
AC Q9LNA7;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)

```

```

DE F5011.11.
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC eurosids II; Brassicales; Brassicaceae; Arabidopsis.
OX NCBI_TaxID=3702;
RN [1]
RP SEQUENCE FROM N.A.
RA Chao Q., Brooks S., Buehler E., Johnson-Hopson C., Khan S., Kim C.,
RA Shinn P., Altafi H., Bei Q., Chin C., Chioi J., Choi E., Conn L.,
RA Conway A., Gonzales A., Hansen N., Howing B., Koo T., Lam B.,
RA Lenz C., Li J., Liu A., Liu K., Liu S., Mukharsky N., Nguyen M.,
RA Palm C., Pham P., Sakano H., Schwartz J., Southwick A., Thaveri A.,
RA Toriumi M., Vaysberg M., Yu G., Federspiel N.A., Theologis A.,
RA Ecker J.R.;
RT "Genomic sequence for Arabidopsis thaliana BAC F5011 from chromosome
RT 1.";
RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA Ecker J.R.;
RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RA Ecker J.R.;
RL Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
RN [4]
RP SEQUENCE FROM N.A.
RA Cheuk R., Shinn P., Brooks S., Buehler E., Chao Q., Johnson-Hopson C.,
RA Khan S., Kim C., Altafi H., Bei B., Chin C., Chioi J., Choi E.,
RA Conn L., Conway A., Gonzales A., Hansen N., Howing B., Koo T., Lam B.,
RA Lee J., Lenz C., Li J., Liu A., Liu J., Liu S., Mukharsky N.,
RA Nguyen M., Palm C., Pham P., Sakano H., Schwartz J., Southwick A.,
RA Thaveri A., Toriumi M., Vaysberg M., Yu G., Davis R., Federspiel N.,
RA Theologis A., Ecker J.;
RL Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC025416; AAF79633.1; -.
DR InterPro; IPR003377; Cornichon.
DR Pfam; PF03311; Cornichon; 1.
SQ SEQUENCE 110 AA; 13003 MW; 8C6D066C5DDCC67D CRC64;

Query Match      15.6%; Score 122.5; DB 10; Length 110;
Best Local Similarity 25.4%; Pred. No. 2.3e-05;
Matches 32; Conservative 26; Mismatches 45; Indels 23; Gaps 4;

QY 10 YMLALLTAALIFFAIWHIIAFDELKTYKNPIDQCNLTNPVLPEYLHAFPCVLMFLCA 69
Db 7 WLISFFFLIALVGIIVQVCLADLEFDYINPYDSASRINSVLPPEFVQVLCVYF--- 63

QY 70 AEWLTGLNMPLLAYHIWYMSRPMVSPGGLYDPTIMNADILAYCQEGWCKLAFYLLA 129
Db 64 -----LLTCHC--YSKR-----QHLVDVTEIFN--LLNWEKKRFLKLVIVLN 103

QY 130 PFYLY 135
Db 104 LFLATF 109

RESULT 15
Q9SZ74 PRELIMINARY; PRT; 145 AA.
AC Q9SZ74;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Hypothetical 17.3 kDa protein.
GN F16J13.160 OR AT4G12090.
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC eurosids II; Brassicales; Brassicaceae; Arabidopsis.
OX NCBI_TaxID=3702;
RN [1]

```

Search completed: September 11, 2003, 14:39:55  
Job time : 109 secs





GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 11, 2003, 14:36:35 ; Search time 23 Seconds  
(without alignments)  
294,428 Million cell updates/sec

Title: US-09-918-585A-322

Perfect score: 784

Sequence: 1 MAFTFAFCYMLALLTAAL.....PYLLAFFYLYGMIYLVSS 144

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt\_41.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	784	100.0	144	1	CNIH_HUMAN
2	778	99.2	144	1	CNIH_MOUSE
3	586	74.7	160	1	CNIH_HUMAN
4	575	73.3	160	1	CNIH_MOUSE
5	548	69.9	144	1	CNI_DROME
6	544	69.4	144	1	CNI_DROVI
7	472	60.2	145	1	YFR3_CABEL
8	244.5	31.2	139	1	H163_HUMAN
9	212.5	27.1	137	1	ERV4_YEAST
10	204.5	26.1	134	1	YEV5_SCHPO
11	193.5	24.7	142	1	YB60_YEAST
12	84.5	10.8	256	1	TATC_HAEIN
13	82.5	10.5	802	1	YGN9_YEAST
14	81	10.3	446	1	NUAM_CERCA
15	79.5	10.1	621	1	P212_MOUSE
16	78.5	10.0	305	1	T2RD_RAT
17	77.5	9.9	296	1	YESQ_BACSU
18	75.5	9.6	209	1	Y1L3_YEAST
19	74.5	9.5	458	1	SSU1_YEAST
20	74	9.4	253	1	YDIJ_BACHD
21	73	9.3	258	1	TATC_SCOLI
22	73	9.3	363	1	CYB_TRYBB
23	72.5	9.2	256	1	YM56_YEAST
24	72.5	9.2	385	1	CYB_ACACA
25	72	9.2	381	1	CYB_NEOAL
26	72	9.2	797	1	S6A5_HUMAN
27	72	9.2	799	1	S6A5_RAT
28	71	9.1	171	1	YB74_YEAST
29	71	9.1	441	1	DIHR_ACHDO
30	71	9.1	459	1	NUAM_BOVIN
31	71	9.1	558	1	AGP3_YEAST
32	70.5	9.0	401	1	NH65_CABEL
33	70	8.9	400	1	T2R9_MOUSE

34	70	8.9	390	1	O85B_DROME
35	70	8.9	852	1	WS14_HUMAN
36	70	8.9	2039	1	CCH1_YEAST
37	69.5	8.9	307	1	T2RA_HUMAN
38	69.5	8.9	372	1	CYB_TRYBO
39	69.5	8.9	395	1	DIHR_MANSE
40	69	8.8	369	1	Y116_MYCPN
41	69	8.8	557	1	OM6_CHLPS
42	68.5	8.7	363	1	YRU5_CAEEL
43	68	8.7	395	1	YN84_CAEEL
44	68	8.7	435	1	EXOQ_RHIME
45	67.5	8.6	208	1	HIS1_THEMEA

#### ALIGNMENTS

RESULT 1					
ID	CNIH_HUMAN	STANDARD;	PRT;	144	AA.
AC	O95406;				
DT	30-MAY-2000 (Rel. 39, Created)				
DT	30-MAY-2000 (Rel. 39, Last sequence update)				
DT	28-FEB-2003 (Rel. 41, Last annotation update)				
DE	Cornichon homolog (TGM77).				
GN	CNIH OR CNIL.				
OS	Homo sapiens (Human).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
OX	NCBI_TaxID=9606;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RC	TISSUE=Carcinoma;				
RA	Plisov S.Y., Ivanov S.V., Lerman M., Perantoni A.O.;				
RL	Submitted (NOV-1998) to the EMBL/GenBank/DBJ databases.				
RN	[2]				
RP	SEQUENCE FROM N.A.				
RC	TISSUE=Blood;				
RX	MEDLINE=20499367; PubMed=11042152;				
RA	Zhang Q.-H., Ye M., Wu X.-Y., Ren S.-X., Zhao M., Zhao C.-J., Fu G.,				
RA	Shen Y., Fan H.-Y., Lu G., Zhong M., Xu X.-R., Han Z.-G., Zhang J.-W.,				
RT	Tao J., Huang Q.-H., Zhou J., Hu G.-X., Gu J., Chen S.-J., Chen Z.;				
RT	"Cloning and functional analysis of cDNAs with open reading frames for				
RT	300 previously undefined genes expressed in CD34+ hematopoietic				
RL	stem/progenitor cells.";				
RL	Genome Res. 10:1546-1560(2000).				
RN	[3]				
RP	SEQUENCE OF 11-144 FROM N.A.				
RX	MEDLINE=9227056; PubMed=10209299;				
RA	Utku N., Bulwin G.-C., Beinke S., Heinemann T., Beato F., Randall J.,				
RA	Schneiders B., Sandhoff K., Volk H.-D., Milford E., Gullans S.R.;				
RT	"The human homolog of Drosophila cornichon protein is differentially				
RT	expressed in alloactivated T-cells.";				
RL	Biochim. Biophys. Acta 1449:203-210(1999).				
CC	-!- SUBCELLULAR LOCATION: Integral membrane protein (potential).				
CC	-!- TISSUE SPECIFICITY: HIGHLY EXPRESSED IN HEART, LIVER, SKELETAL				
CC	MUSCLE, PANCREAS, ADRENAL MEDULLA AND CORTEX, THYROID, TESTIS,				
CC	SPLEEN, APPENDIX, PERIPHERAL BLOOD LYMPHOCYTES AND BONE MARROW.				
CC	LOWER EXPRESSION FOUND IN BRAIN, PLACENTA, LUNG, KIDNEY, OVARY,				
CC	SMALL INTESTINE, STOMACH, LYMPH NODE, THYMUS AND FETAL LIVER.				
CC	-!- SIMILARITY: BELONGS TO THE CORNICHON FAMILY.				
CC	-----				
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration				
CC	between the Swiss Institute of Bioinformatics and the EMBL outstation -				
CC	the European Bioinformatics Institute. There are no restrictions on its				
CC	use by non-profit institutions as long as its content is in no way				
CC	modified and this statement is not removed. Usage by and for commercial				
CC	entities requires a license agreement (See http://www.isb-sib.ch/announce/				
CC	or send an email to license@isb-sib.ch).				
CC	-----				
DR	EMBL; AF104339; AAC38388.1; -				
DR	EMBL; AF070654; AAD20960.1; -				
DR	EMBL; AF031379; AAD32301.1; -				

Genew; HGNC:19431; CNH.  
GO; GO:0006955; P:immune response; TAS.  
InterPro; IPR003377; Cornichon.  
Pfam; PF03311; Cornichon; 1.  
PROSITE; PS01340; CORNICHON; 1.  
Transmembrane.  
FT TRANSMEM 11 31 POTENTIAL.  
FT TRANSMEM 57 77 POTENTIAL.  
FT TRANSMEM 123 143 POTENTIAL.  
SQ SEQUENCE 144 AA; 16699 MW; 59BD114D24C455CD CRC64;  
Query Match 100.0%; Score 784; DB 1; Length 144;  
Best Local Similarity 100.0%; Pred. No. 1.5e-68; Indels 0; Gaps 0;  
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MAFTFAFCVMLALLTAALIFFAIWHIIAFDELKTDYKPNIDQCNTLNPLVPEYLIHA 60  
DB 1 MAFTFAFCVMLALLTAALIFFAIWHIIAFDELKTDYKPNIDQCNTLNPLVPEYLIHA 60  
QY 61 FFCVWFLCAAEWLTGLNPLLAYHIWYMSRPMVSGPLGYDPTTINADILAYCQKEGW 120  
DB 61 FFCVWFLCAAEWLTGLNPLLAYHIWYMSRPMVSGPLGYDPTTINADILAYCQKEGW 120  
QY 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
DB 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
RESULT 2  
ID CNH\_MOUSE STANDARD; PRT; 144 AA.  
AC O35372;  
DT 30-MAY-2000 (Rel. 39, Created)  
DT 30-MAY-2000 (Rel. 39, Last sequence update)  
DT 30-MAY-2000 (Rel. 39, Last annotation update)  
DE Cornichon homolog.  
GN Mus musculus (Mouse).  
OS Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
OX NCBI\_TaxID=10090;  
[1]  
RN SEQUENCE FROM N.A.  
RP STRAIN=B6D2;  
RC MEDLINE=99147138; PubMed=10022955;  
RA Hwang S.-Y., Oh B., Zhang Z., Miller W., Solter D., Knowles B.B.;  
RT "The mouse cornichon gene family."  
RL Dev. Genes Evol. 209:120-125(1999).  
CC -1- TISSUE SPECIFICITY: EXPRESSED IN OOCYTES, AND AT A BASAL LEVEL IN  
CC -1- OVARIAN SOMATIC CELLS OF 6-WEEK-OLD MOUSE. EXPRESSED IN ADULT  
CC BRAIN.  
CC -1- DEVELOPMENTAL STAGE: ABUNDANT IN FULL GROWN OOCYTE AND THE  
CC OVULATED UNFERTILIZED EGG, SHOWS A SLIGHT DECREASE 12 HOURS AFTER  
CC FERTILIZATION. TRANSCRIPTS FROM THE ACTIVATED EMBRYONIC GENOME ARE  
CC PRESENT IN THE EIGHT-CELL EMBRYO.  
CC -1- SIMILARITY: BELONGS TO THE CORNICHON FAMILY.  
CC This SWISS-PROT entry is copyright. It is produced through a collaboration  
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
CC the European Bioinformatics Institute. There are no restrictions on its  
CC use by non-profit institutions as long as its content is in no way  
CC modified and this statement is not removed. Usage by and for commercial  
CC entities requires a license agreement (see <http://www.isb-sib.ch/announce/>  
CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
CC -----  
CC EMBL; AF022811; AAC15828.1; -  
CC DR MGD; MGI:1277202; Cnih.  
CC DR InterPro; IPR003377; Cornichon.  
CC DR Pfam; PF03311; Cornichon; 1.  
CC DR PROSITE; PS01340; CORNICHON; 1.  
KW Transmembrane.  
\*FT TRANSMEM 11 31 POTENTIAL.

FT TRANSMEM 57 77 POTENTIAL.  
FT TRANSMEM 123 143 POTENTIAL.  
SQ SEQUENCE 144 AA; 16713 MW; DF66786D24C455CA CRC64;  
Query Match 99.2%; Score 778; DB 1; Length 144;  
Best Local Similarity 99.3%; Pred. No. 5.7e-68; Indels 0; Gaps 0;  
Matches 143; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MAFTFAFCVMLALLTAALIFFAIWHIIAFDELKTDYKPNIDQCNTLNPLVPEYLIHA 60  
DB 1 MAFTFAFCVMLALLTAALIFFAIWHIIAFDELKTDYKPNIDQCNTLNPLVPEYLIHA 60  
QY 61 FFCVWFLCAAEWLTGLNPLLAYHIWYMSRPMVSGPLGYDPTTINADILAYCQKEGW 120  
DB 61 FFCVWFLCAAEWLTGLNPLLAYHIWYMSRPMVSGPLGYDPTTINADILAYCQKEGW 120  
QY 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
DB 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
RESULT 3  
ID CNIL\_HUMAN STANDARD; PRT; 160 AA.  
AC Q8TBE1;  
DT 28-FEB-2003 (Rel. 41, Created)  
DT 28-FEB-2003 (Rel. 41, Last sequence update)  
DT 15-SEP-2003 (Rel. 42, Last annotation update)  
DE Cornichon-like protein.  
GN CNIL.  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
OX NCBI\_TaxID=9606;  
[1]  
RN SEQUENCE FROM N.A.  
RA Ninomiya K., Wagatsuma M., Kanda K., Kondo H., Yokoi T., Kodaira H.,  
RA Furuya T., Takahashi M., Kikkawa E., Omura Y., Abe K., Kamihara K.,  
RA Katsuta N., Sato K., Tanikawa M., Yamazaki M., Sugiyama T., Irie R.,  
RA Otsuki T., Sato H., Wakamatsu A., Ishii S., Yamamoto J., Isono Y.,  
RA Kawai-Hio Y., Saito K., Nishikawa T., Kimura K., Yamashita H.,  
RA Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Murakawa K.,  
RA Kanehori K., Takahashi-Fujii A., Oshima A., Sugiyama A., Kawakami B.,  
RA Suzuki Y., Sugano S., Nagahari K., Masuho Y., Nagai K., Isogai T.;  
RT "NEO human cDNA sequencing project";  
RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.  
[2]  
RN SEQUENCE FROM N.A.  
RP TISSUE=Lung;  
RC MEDLINE=22388257; PubMed=12477932;  
RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
RA Diachenko L., Marusina K., Farmer A.F., Casavant T.L., Schetz T.E.,  
RA Stapleton M., Soares M.B., Bonaldo M.F., Carninci P., Prange C.,  
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Mullany S.J.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richardson D., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalón D.K., Muny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Whiting J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywinak M.I., Skalek U., Smaluk D.E.,  
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length  
RT human and mouse cDNA sequences";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
CC -1- SUBCELLULAR LOCATION: Integral membrane protein (Potential).  
CC -1- SIMILARITY: BELONGS TO THE CORNICHON FAMILY.  
CC -----

IDS

CC This SWISS-PROT entry is copyright. It is produced through a collaboration  
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
 CC the European Bioinformatics Institute. There are no restrictions on its  
 CC use by non-profit institutions as long as its content is in no way  
 CC modified and this statement is not removed. Usage by and for commercial  
 CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>  
 CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
 CC -----

DR EMBL; AK096312; BAC04760.1; -;  
 DR EMBL; BC022780; AAH22780.1; -;  
 DR InterPro; IPR003377; Cornichon.  
 DR Pfam; PF03311; Cornichon; 1.  
 KW PROSITE; PS01340; CORNICHON; FALSE\_NEG.  
 DR Transmembrane.  
 FT TRANSMEM 11 31 POTENTIAL.  
 FT TRANSMEM 73 93 POTENTIAL.  
 FT TRANSMEM 139 159 POTENTIAL.  
 SQ SEQUENCE 160 AA; 18976 MW; CPT8645A9587504 CRC64;

Query Match 74.7%; Score 586; DB 1; Length 160;  
 Best Local Similarity 68.1%; Pred. No. 1.7e-49;  
 Matches 109; Conservative 11; Mismatches 24; Indels 16; Gaps 1;

OY 1 MAFTFAAFYCYMLALLTAALFFAIWHIIAFDELKTDYKNPIDQCN----- 46  
 DB 1 MAFTFAAFYCYMLSVLCAALFFAIWHIIAFDELKSPIDQCNFVHARERLNRIERI 60  
 OY 47 --TLNPLVLPYLLHAFPCVMFLCAEWLTLGLNMLLAYHIWRYMSRVMSGGLYDPT 104  
 DB 61 CFLRLKLVLPYSIHSFLCFMFLCAEWLTLGLNPLVLPFYHWPYFCHPADSSELAYDPP 120  
 OY 105 TIMNADIILAYCQKEGWCKLAFYLLAFFYLYGMIYLVSS 144  
 DB 121 VMNADTILSYCQKEAWCKLAFYLLSFFYLYGMIYLVSS 160

## RESULT 4

CNI\_MOUSE  
 ID CNI\_MOUSE STANDARD; PRT; 160 AA.  
 AC O35089;  
 DT 30-MAY-2000 (Rel. 39, Created)  
 DT 30-MAY-2000 (Rel. 39, Last sequence update)  
 DT 30-MAY-2000 (Rel. 39, Last annotation update)  
 DE Cornichon-like protein.  
 GN CNI.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6; TISSUE=Fetal brain;  
 RA Fujimoto N., Kawamoto S., Matsubara K., Okubo K.;  
 RT "Cloning of mouse homologue of Drosophila cornichon protein from 17.5  
 RL dpc fetal brain";  
 RL Submitted (AUG-1997) to the EMBL/GenBank/DBJ databases.  
 RN [2]  
 RP TISSUE SPECIFICITY, AND DEVELOPMENTAL STAGE.  
 RX MEDLINE=99147138; PubMed=10022955;  
 RA Hwang S.-Y., Oh B., Zhang Z., Miller W., Solter D., Knowles B.B.;  
 RT "The mouse cornichon gene family";  
 RL Dev. Genes Evol. 209:120-125(1999).  
 CC -!- SUBCELLULAR LOCATION: Integral membrane protein (Potential).  
 CC -!- TISSUE SPECIFICITY: EXPRESSED IN EIGHT-CELL EMBRYO, BLASTOCYST,  
 CC 6.5-DAY WHOLE EMBRYO, 7.5-DAY PRIMITIVE STREAK, 11.5-DAY LIMB BUD  
 CC AND IN 13.5-DAY WHOLE EMBRYO. ALSO IN ADULT LUNG AND BRAIN.  
 CC -!- DEVELOPMENTAL STAGE: First detected at the eight-cell stage.  
 CC -!- SIMILARITY: BELONGS TO THE CORNICHON FAMILY.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration  
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
 CC the European Bioinformatics Institute. There are no restrictions on its  
 CC use by non-profit institutions as long as its content is in no way  
 CC modified and this statement is not removed. Usage by and for commercial  
 CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>  
 CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
 CC -----

CC modified and this statement is not removed. Usage by and for commercial  
 CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>  
 CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
 CC -----

DR EMBL; AB006191; BAA21746.2; -;  
 DR MGD; MGI:1277225; Cnrl.  
 DR InterPro; IPR003377; Cornichon.  
 DR Pfam; PF03311; Cornichon; 1.  
 KW PROSITE; PS01340; CORNICHON; 1.  
 DR Transmembrane.  
 FT TRANSMEM 11 31 POTENTIAL.  
 FT TRANSMEM 73 93 POTENTIAL.  
 FT TRANSMEM 139 159 POTENTIAL.  
 SQ SEQUENCE 160 AA; 18931 MW; 00330E5E609B28BF CRC64;

Query Match 73.3%; Score 575; DB 1; Length 160;  
 Best Local Similarity 66.0%; Pred. No. 1.9e-48;  
 Matches 105; Conservative 13; Mismatches 25; Indels 16; Gaps 1;

OY 1 MAFTFAAFYCYMLALLTAALFFAIWHIIAFDELKTDYKNPIDQ----- 44  
 DB 1 MAFTFAAFYCYMLTLVLCASLIFFVWHIIAFDELRTDFKNPIDQGNPARARERLNRIERI 60  
 OY 45 CNTNPLVLPYLLHAFPCVMFLCAEWLTLGLNMLLAYHIWRYMSRVMSGGLYDPT 104  
 DB 61 CCLRLKLVLPYSIHSFLCFMFLCAEWLTLGLNPLVLPFYHWPYFCHPADSSELAYDPP 120  
 OY 105 TIMNADIILAYCQKEGWCKLAFYLLAFFYLYGMIYLVSS 143  
 DB 121 SIMNADIILYCYKESGWCKLAFYLLSFFYLYGMIYLVSS 159

## RESULT 5

CNI\_DROME  
 ID CNI\_DROME STANDARD; PRT; 144 AA.  
 AC P49858; Q9V423;  
 DT 01-OCT-1996 (Rel. 34, Created)  
 DT 01-OCT-1996 (Rel. 34, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Cornichon protein.  
 GN CNI OR CG5855  
 OS Drosophila melanogaster (Fruit fly).  
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
 OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
 OC Ephydroidea; Drosophilidae; Drosophila.  
 OX NCBI\_TaxID=7227;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Ovary;  
 RX MEDLINE=95300228; PubMed=7540118;  
 RA Roth S., Neuman-Silberberg F.S., Barcelo G., Schuepbach T.;  
 RT "Cornichon and the EGF receptor signaling process are necessary for  
 RT both anterior-posterior and dorsal-ventral pattern formation in  
 RT Drosophila";  
 RL Cell 81:967-978(1995).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Berkley;  
 RX MEDLINE=99403001; PubMed=10471707;  
 RA Ashburner M., Misra S., Rote J., Lewis S.E., Blazej R.G., Davis T.,  
 RA Doyle C., Galle R.F., George R.A., Harris N.L., Hartzell G.,  
 RA Harvey D., Hong L., Houston K.A., Hoskins R.A., Johnson G., Martin C.,  
 RA Moehrefi A., Palazzolo M., Reese M.G., Spradling A.C., Teang G.,  
 RA Wan K.H., Whitelaw K., Celnik S.E., Rubin G.M.;  
 RT "An exploration of the sequence of a 2.9-Mb region of the genome of  
 RT Drosophila melanogaster: the Adh region";  
 RL Genetics 153:179-219(1999).  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Berkley;  
 RX MEDLINE=20196006; PubMed=10731132;  
 RA Adams M.D., Celnik S.E., Holt R.A., Evans C.A., Gocayne J.D.,  
 RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,

George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,		Best Local Similarity 66.7%; Pred. No. 6.8e-46;		Matches 96; Conservative 23; Mismatches 25; Indels 0; Gaps 0;	
Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,					
Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champagne M., Pfeiffer B.D.,					
Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,					
Abril J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,					
Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,					
Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,					
Borkova D., Botchan M.R., Bouck J., Brokstein P., Brothier P.,					
Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,					
Cherry J.M., Cawley S., Dahle C., Davenport L.B., Davies P.,					
de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,					
Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,					
Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,					
Foster C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,					
Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,					
Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,					
Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,					
Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,					
Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,					
Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,					
Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,					
Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,					
Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,					
Nelson D.R., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,					
Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,					
Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,					
Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,					
Svirskaas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,					
Wang Z.-Y., Wasserman D.A., Weissstock G.M., Weissbach J.,					
Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,					
Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,					
Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,					
Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;					
RT "The genome sequence of Drosophila melanogaster.";					
RL Science 287:2185-2195(2000).					
CC -1- FUNCTION: ASSOCIATED WITH GURKEN, PRODUCES A SIGNAL RECEIVED BY					
CC TORPEDO RESULTING IN A SIGNALING PATHWAY THAT FIRST ESTABLISHES					
CC POSTERIOR FOLLICLE CELL FATES AND NORMAL LOCALIZATION OF THE					
CC ANTERIOR AND POSTERIOR DETERMINANTS, LATER THEY ACT IN A SIGNALING					
CC EVENT INDUCING DORSAL FOLLICLE CELL FATES AND REGULATING THE					
CC DORSAL-VENTRAL PATTERN OF EGG AND EMBRYO.					
CC -1- SUBCELLULAR LOCATION: Integral membrane protein (Potential).					
CC -1- DEVELOPMENTAL STAGE: IN EARLY STAGES, IT IS PRESENT IN THE NURSE					
CC CELL OCYTE CLUSTER. IT IS HIGHLY EXPRESSED IN STAGE 1-6 EGG					
CC CHAMBERS, EXPRESSION CEASES DURING STAGE 7 AND CANNOT BE DETECTED					
CC IN STAGES 8 AND 9. DURING STAGE 10, IT IS REEXPRESSED IN THE NURSE					
CC CELLS.					
CC -1- SIMILARITY: BELONGS TO THE CORNICHON FAMILY.					
CC This SWISS-PROT entry is copyright. It is produced through a collaboration					
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -					
CC the European Bioinformatics Institute. There are no restrictions on its					
CC use by non-profit institutions as long as its content is in no way					
CC modified and this statement is not removed. Usage by and for commercial					
CC entities requires a license agreement (See <a href="http://www.isb-sib.ch/announce/">http://www.isb-sib.ch/announce/</a>					
CC or send an email to <a href="mailto:license@isb-sib.ch">license@isb-sib.ch</a> ).					
CC EMBL; U28069; AAA86527.1; -					
DR EMBL; AE003415; AAF45003.1; -					
DR EMBL; AE003650; AAF53521.1; -					
DR PIR; A56724; A56724.					
DR FlyBase; FBgn0000339; cni.					
DR InterPro; IPR003377; Cornichon.					
DR Pfam; PF03311; Cornichon; 1.					
DR PROSITE; PS01340; CORNICHON; 1.					
KW Developmental protein; Transmembrane.					
FT TRANSMEM 11 31 POTENTIAL.					
FT TRANSMEM 57 77 POTENTIAL.					
FT TRANSMEM 123 143 POTENTIAL.					
SQ SEQUENCE 144 AA; 16931 MW; 27692A3F68ECE1A9 CRC64;					
Query Match		69.4%; Score 544; DB 1; Length 144;			
Best Local Similarity		66.7%; Pred. No. 1.7e-45;			
Matches		96; Conservative 23; Mismatches 25; Indels 0; Gaps 0;			
QY	1	MAFTFAFCYMLALLTAALIFPAIWHITAFDELKTDYKNPIDDQCNLTNPLVPEYLIIHA	60		
DB	1	MAFNFTAFYIVALLIGDAFLIFPAIFHVIAFDELKTDYKNPIDDQCNLTNPLVPEYLIIHL	60		
QY	61	FFCVWFLCAAEMWLTGLNPLLAYHIWRYMSRPMVSGPGLYDPTTIMNADILAYCOKEGW	120		
DB	61	FLNLLFLFCGEWVSLCINPLIAYHIWRYKNRPMVSGPGLYDPTTVLKTDTLFRNLREGW	120		
QY	121	CKLAFYLLAFYYLYGMIVLVSS	144		
DB	121	IKLAVYLISFFYYIYGMVYSLIST	144		
RESULT 6					
CNI_DROVI					
ID	CNI_DROVI	STANDARD;	PRT; 144 AA.		
AC	P52159;				
DT	01-OCT-1996 (Rel. 34, Created)				
DT	01-OCT-1996 (Rel. 34, Last sequence update)				
DT	30-MAY-2000 (Rel. 39, Last annotation update)				
DE	Cornichon protein.				
GN	CNI.				
OS	Drosophila virilis (Fruit fly).				
OC	Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;				
OC	Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;				
OC	Ephydroidea; Drosophilidae; Drosophila.				
OX	NCBI_TaxID=7244;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RC	TISSUE=Ovary;				
RX	MEDLINE=95300228; PubMed=7540118;				
RA	Roth S., Neuman-Silberberg F.S., Barcelo G., Schuepbach T.;				
RT	"Cornichon and the EGF receptor signaling process are necessary for				
RT	both anterior-posterior and dorsal-ventral pattern formation in				
RT	Drosophila.";				
RL	Cell 81:967-978(1995).				
CC	-1- FUNCTION: ASSOCIATED WITH GURKEN, PRODUCES A SIGNAL RECEIVED BY				
CC	TORPEDO RESULTING IN A SIGNALING PATHWAY THAT FIRST ESTABLISHES				
CC	POSTERIOR FOLLICLE CELL FATES AND NORMAL LOCALIZATION OF THE				
CC	ANTERIOR AND POSTERIOR DETERMINANTS, LATER THEY ACT IN A SIGNALING				
CC	EVENT INDUCING DORSAL FOLLICLE CELL FATES AND REGULATING THE				
CC	DORSAL-VENTRAL PATTERN OF EGG AND EMBRYO (BY SIMILARITY).				
CC	-1- SUBCELLULAR LOCATION: Integral membrane protein (Potential).				
CC	-1- SIMILARITY: BELONGS TO THE CORNICHON FAMILY.				
DR	FlyBase; FBgn0015209; Dvir\cni.				
DR	InterPro; IPR003377; Cornichon.				
DR	Pfam; PF03311; Cornichon; 1.				
DR	PROSITE; PS01340; CORNICHON; 1.				
KW	Developmental protein; Transmembrane.				
FT	TRANSMEM 11 31 POTENTIAL.				
FT	TRANSMEM 57 77 POTENTIAL.				
FT	TRANSMEM 123 143 POTENTIAL.				
SQ	SEQUENCE 144 AA; 16927 MW; D0P4E65560409164 CRC64;				
Query Match		69.4%; Score 544; DB 1; Length 144;			
Best Local Similarity		66.7%; Pred. No. 1.7e-45;			
Matches		96; Conservative 23; Mismatches 25; Indels 0; Gaps 0;			
QY	1	MAFTFAFCYMLALLTAALIFPAIWHITAFDELKTDYKNPIDDQCNLTNPLVPEYLIIHA	60		
DB	1	MAFNFTAFYIVALLIGDAFLIFPAIFHVIAFDELKTDYKNPIDDQCNLTNPLVPEYLIIHL	60		
QY	61	FFCVWFLCAAEMWLTGLNPLLAYHIWRYMSRPMVSGPGLYDPTTIMNADILAYCOKEGW	120		
DB	61	FLNLLFLFCGEWVSLCINPLIAYHIWRYKNRPMVSGPGLYDPTTVLKTDTLFRNLREGW	120		
QY	121	CKLAFYLLAFYYLYGMIVLVSS	144		
DB	121	IKLAVYLISFFYYIYGMVYSLIST	144		

RESULT 6  
CNI\_DROVI STANDARD; PRT; 144 AA.  
ID AC P53159;  
DT 01-OCT-1996 (Rel. 34, Created)  
DT 01-OCT-1996 (Rel. 34, Last sequence update)  
DT 30-MAY-2000 (Rel. 39, Last annotation update)  
DE Cornichon protein.  
GN CNI.  
OS Drosophila virilis (Fruit fly).  
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
OC Ephydroidea; Drosophilidae; Drosophila.  
OX NCBI\_TaxID=7244;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC TISSUE=Ovary;  
RX MEDLINE=95300228; PubMed=7540118;  
RA Roth S., Neuman-Silberberg F.S., Barcelo G., Schuepbach T.;  
RT "Cornichon and the EGF receptor signaling process are necessary for  
RT both anterior-posterior and dorsal-ventral pattern formation in  
RT Drosophila.";  
RL Cell 81:967-978(1995).  
CC -1- FUNCTION: ASSOCIATED WITH GURKEN, PRODUCES A SIGNAL RECEIVED BY  
CC TORPEDO RESULTING IN A SIGNALING PATHWAY THAT FIRST ESTABLISHES  
CC POSTERIOR FOLLICLE CELL FATES AND NORMAL LOCALIZATION OF THE  
CC ANTERIOR AND POSTERIOR DETERMINANTS, LATER THEY ACT IN A SIGNALING  
CC EVENT INDUCING DORSAL FOLLICLE CELL FATES AND REGULATING THE  
CC DORSAL-VENTRAL PATTERN OF EGG AND EMBRYO (BY SIMILARITY).  
CC -1- SUBCELLULAR LOCATION: Integral membrane protein (Potential).  
CC -1- SIMILARITY: BELONGS TO THE CORNICHON FAMILY.  
CC FlyBase; FBgn0015209; Dvir\cni.  
CC InterPro; IPR003377; Cornichon.  
CC Pfam; PF03311; Cornichon; 1.  
CC PROSITE; PS01340; CORNICHON; 1.  
KW Developmental protein; Transmembrane.  
FT TRANSMEM 11 31 POTENTIAL.  
FT TRANSMEM 57 77 POTENTIAL.  
FT TRANSMEM 123 143 POTENTIAL.  
SQ SEQUENCE 144 AA; 16927 MW; D0F4E65560409164 CRC64;

```

RESULT 7
YFR3_CAEEL
ID YFR3_CAEEL STANDARD; PRT; 145 AA.
AC Q22361;
DT 30-MAY-2000 (Rel. 39, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Hypothetical 16.8 kDa protein T09E8.3 in chromosome V.
GN T09E8.3.
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidae;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Bristol N2.
RA Steward C.;
RL Submitted (AUG-1996) to the EMBL/GenBank/DBJ databases.
RN [2]
RP REVISIONS.
RA Durbin R.;
RL Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.
CC -!- SUBCELLULAR LOCATION: Integral membrane protein (Potential).
CC -!- SIMILARITY: BELONGS TO THE CORNICHON FAMILY.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; Z78065; CAB01516.2; -.
DR PIR; T24750; T24750.
DR WormPep; T09E8.3; CE23961.
DR InterPro; IPR003377; Cornichon.
DR Pfam; PF03311; Cornichon; 1.
DR PROSITE; PS01340; CORNICHON; 1.
KW Hypothetical protein; Transmembrane.
FT TRANSMEM 5 25 POTENTIAL.
FT TRANSMEM 57 77 POTENTIAL.
FT TRANSMEM 116 136 POTENTIAL.
SQ SEQUENCE 145 AA; 16830 MW; 5C1C032B25DCE73C CRC64;
Query Match 60.2%; Score 472; DB 1; Length 145;
Best Local Similarity 59.0%; Pred. No. 1.4e-38;
Matches 85; Conservative 24; Mismatches 35; Indels 0; Gaps 0;
Qy 1 MAFTFAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLPYLIHA 60
Db 1 MAFTFAFCYLLALIAVGFCIFFAIYVICVDELRTDYKNPIEQCNLNQLILPEYIIG 60
Qy 61 PFCVFLCAEWLTLGLNPLLAYHWYMRSPVMSGGLYDPTTINMADILAYCQKGGW 120
Db 61 TFTVLTFPSWGLISILANLPLAFYHYTYAKRPVMSGPGIYDPTTLNRLSTLSLRSW 120
Qy 121 CKLAFYLAFYYLYGMIVLVSS 144
Db 121 IKLAFYLVSFYYLYAMIVTLVTS 144
RESULT 8
H163_HUMAN
ID H163_HUMAN STANDARD; PRT; 139 AA.
AC Q9P003;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Protein HSPC163.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

```

```

OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Blood;
RX MEDLINE=20499167; PubMed=11042152;
RA Zhang Q.-H., Ye M., Wu X.-Y., Ren S.-X., Zhao M., Zhao C.-J., Fu G.-,
RA Shen Y., Fan H.-Y., Lu G., Zhong M., Xu X.-R., Han Z.-G., Zhang J.-W.,
RA Tao J., Huang Q.-H., Zhou J., Hu G.-X., Gu J., Chen S.-J., Chen Z.;
RT "Cloning and functional analysis of cDNAs with open reading frames for
RT 300 previously undefined genes expressed in CD34+ hematopoietic
RT stem/progenitor cells."
RL Genome Res. 10:1546-1560(2000).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RX MEDLINE=22388257; PubMed=12477932;
RA Straubeberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McSwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickinson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butcherfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length
RT human and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC -!- SUBCELLULAR LOCATION: Integral membrane protein (Potential).
CC -!- SIMILARITY: BELONGS TO THE CORNICHON FAMILY.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; AF161512; AAF29127.1; -.
DR EMBL; BC000573; AAH00573.1; -.
DR InterPro; IPR003377; Cornichon.
DR Pfam; PF03311; Cornichon; 1.
KW Transmembrane.
FT TRANSMEM 5 25 POTENTIAL.
FT TRANSMEM 57 77 POTENTIAL.
FT TRANSMEM 118 138 POTENTIAL.
SQ SEQUENCE 139 AA; 16093 MW; 9452E9BDEC2A8DEF CRC64;
Query Match 31.2%; Score 244.5; DB 1; Length 139;
Best Local Similarity 38.0%; Pred. No. 9e-17;
Matches 52; Conservative 24; Mismatches 60; Indels 1; Gaps 1;
Qy 7 AFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLPYLIHAFYCVMF 66
Db 3 AVFVFSLLDCCALIFLSVFIITLSDLECDYINARCCSKLNKWKVPELIGHITVTVLL 62
Qy 67 LCAAEWLTLGLNPLLAYHWYMRSPVMSGGLYDPTTINMADILAYCQKGGCKLAFY 126
Db 63 LMSLHWEIFLNLPLVATWNIYRYIMVP-SGNMGVFDPTTEIHNRGQLKSHMKEAMIKLGFH 121
Qy 127 LLAFFYLYGMIVLVSS 143
Db 122 LLCFFMYLYSMILALIN 138

```

Best Local Similarity 32.8%; Pred. No. 1.1e-13;  
Matches 45; Conservative 31; Mismatches 54; Indels 7; Gaps 2;

QY 7 AFYCMALLTAAALFFAIWHIIAFDELKTDYKNIDOCNTNPLVLYLHAFPCYMF 66  
DB 2 AWLFILAVVVCINLFGVHFTILYADLEADYINPIELCKYKNLITPEALHGLSLLF 61  
QY 67 LCAAEWLTGLANPLIAYHIWYMSRPVSGPLGYDPTTINNADILAYCOKEGWCKLAFY 126  
DB 62 LLNGYWFVFLNLPVLYNL-----NKIYKVLQDLEIFPT--LGKHKRESFLKLGPH 114  
QY 127 LLAPFYLYGMIYVLVS 143  
DB 115 LLNFFLYLYRMVIALIA.131

RESULT 10

YEVS SCHPO

ID YEVS SCHPO STANDARD; PRT; 134 AA.

AC 014038;

DT 30-MAY-2000 (Rel. 39, Created)

DT 30-MAY-2000 (Rel. 39, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE Hypothetical protein C2C4.05 in chromosome I.

GN SPAC2C4.05.

OS Schizosaccharomyces pombe (Fission yeast).

OC Eukaryota; Fungi; Ascomycota; Schizosaccharomycetes;

OC Schizosaccharomycetales; Schizosaccharomycetaceae;

OC Schizosaccharomycetes.

NCBI\_TaxID=4896;

RP SEQUENCE FROM N.A.

RC STRAIN=972;

RE MEDLINE=21684801; PubMed=11859360;

RA Wood V., Gwilliam R., Rajandream M.A., Lyne M., Lyne R., Stewart A.,

RA Sproules J., Peat N., Hayles J., Baker S., Basham D., Bowman S.,

RA Brooks K., Brown N., Brown S., Chillingworth T., Church C.M.,

RA Collins M., Connor R., Cronin A., Davis P., Feltwell T., Fraser A.,

RA Gentles S., Goble A., Hamlin N., Harris D., Hidalgo J., Hodgson G.,

RA Holroyd S., Hornsby T., Howarth S., Huckle E.J., Hunt S., Jagels K.,

RA James K., Jones L., Jones M., Leather S., McDonald S., McLean J.,

RA Mooney P., Moule S., Mungall K., Murphy L., Niblett D., Odell C.,

RA Oliver K., O'Neil S., Pearson D., Quail M.A., Rabinowitsch E.,

RA Rutherford K., Rutter S., Saunders D., Seeger K., Sharp S.,

RA Skelton J., Simmonds M., Squares R., Squares S., Stevens K.,

RA Taylor K., Taylor R.G., Tivey A., Walsh S.V., Warren T., Whitehead S.,

RA Woodward J., Volckaert G., Aert R., Robben J., Grymonprez B.,

RA Welljens I., Vansteels E., Rieger M., Schaefer M., Mueller-Auer S.,

RA Gabel C., Fuchs M., Fritz C., Holzer E., Moestl D., Hilbert H.,

RA Borzym K., Langer I., Beck A., Lechner H., Reinhardt R., Pohl T.M.,

RA Eger P., Zimmermann W., Wedler H., Wambutt R., Purnelle B.,

RA Goffeau A., Cadieu E., Dreano S., Gloux S., Lelaure V., Mottier S.,

RA Lucas R., Rochet M., Gaillardin C., Tallada V.A., Garzon A., Thode G.,

RA Paga R.R., Cruzado L., Jimenez J., Sanchez M., del Rey F., Benito J.,

RA Dominguez A., Revuelta J.L., Moreno S., Armstrong J., Forsburg S.L.,

RA Cerretti L., Lowe I., Ussery D., Barrell B.G., Nurse P.,

RA Shpakovski G.V., Ussery D., Barrell B.G., Nurse P.,

RT "The genome sequence of Schizosaccharomyces pombe."

RL Nature 415:871-880(2002).

CC -1- SUBCELLULAR LOCATION: Integral membrane protein (Potential).

CC -1- SIMILARITY: BELONGS TO THE CORNICHON FAMILY.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration

CC between the Swiss Institute of Bioinformatics and the EMBL outstation

CC the European Bioinformatics Institute. There are no restrictions on its

CC use by non-profit institutions as long as its content is in no way

CC modified and this statement is not removed. Usage by and for commercial

CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>

CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).

CC -----

CC EMBL; Z99259; CAB16365.1; -

DR PIR; T38516; T38516.

RESULT 9  
ID ERV4 YEAST STANDARD; PRT; 137 AA.  
AC P53173;  
DT 01-OCT-1996 (Rel. 34, Created)  
DT 30-MAY-2000 (Rel. 39, Last sequence update)  
DT 30-MAY-2000 (Rel. 39, Last annotation update)  
DE ER-derived vesicles protein ERV14.  
GN ERV14 OR YGL054C.  
OS Saccharomyces cerevisiae (Baker's yeast).  
OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;  
OC Saccharomycetales; Saccharomycetaceae; Saccharomycetes.  
NCBI\_TaxID=4932;  
[1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=9288C;  
RE MEDLINE=97377993; PubMed=9234674;  
RA Feuerhann M., de Montigny J., Potier S., Souciet J.-L.;  
RT "The characterization of two new clusters of duplicated genes  
RT suggests a 'lego' organization of the yeast Saccharomyces cerevisiae  
RT chromosomes.";  
RL Yeast 13:861-869(1997).  
[2]

RP SEQUENCE OF 1-18, AND FUNCTION.  
RX MEDLINE=98402530; PubMed=9732282;  
RA Powers J., Barlowe C.;  
RT "Transport of axl2p depends on erv14p, an ER-vesicle protein related  
RT to the Drosophila cornichon gene product.";  
RL J. Cell Biol. 142:1209-1222(1998).  
CC -1- FUNCTION: COULD REGULATE EXPORT OF THE BUD SITE AND AXIAL GROWTH  
CC SITES SELECTION PROTEIN AXL2 AND POSSIBLY OTHER SECRETORY  
CC PROTEINS FROM THE ENDOPLASMIC RETICULUM IN COPII-COATED VESICLES.  
CC SEEMS TO BE REQUIRED FOR AXIAL BUDDING PATTERN IN HAPLOID CELLS.  
CC -1- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN. RESIDES IN THE  
CC ENDOPLASMIC AND GOLGI COMPARTMENTS, AND THEN PACKAGED INTO  
CC ENDOPLASMIC RETICULUM DERIVED VESICLES.  
CC -1- MISCELLANEOUS: DELETION OF ERV14 PRODUCES DEFECTS IN YEAST CELL  
CC POLARITY. STRAINS HOMOZYGOUS FOR ERV14 DELETION DO NOT SPORULATE.

CC -1- SIMILARITY: BELONGS TO THE CORNICHON FAMILY.  
CC This SWISS-PROT entry is copyright. It is produced through a collaboration  
CC between the Swiss Institute of Bioinformatics and the EMBL outstation  
CC the European Bioinformatics Institute. There are no restrictions on its  
CC use by non-profit institutions as long as its content is in no way  
CC modified and this statement is not removed. Usage by and for commercial  
CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>

CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).

CC -----

CC EMBL; Z72576; CAA96756.1; -

DR PIR; S64058; S64058.

DR SGD; S0003022; ERV14.

DR GO; GO:0030138; C:COPII-coated vesicle; IDA.

DR GO; GO:0005789; C:endoplasmic reticulum membrane; IDA.

DR GO; GO:0007120; P:axial budding; IMP.

DR GO; GO:0006888; P:ER to Golgi transport; IMP.

DR GO; GO:0007151; P:sporulation (sensu Saccharomycetes); IMP.

DR InterPro; IPR003377; Cornichon.

DR Pfam; PF03311; Cornichon; 1.

DR PROSITE; PS01340; CORNICHON; 1.

KW Endoplasmic reticulum; Transmembrane; Golgi stack.

FT INIT MET 0 0 CYTOPLASMIC (POTENTIAL).

FT DOMAIN 1 5 POTENTIAL.

FT TRANSMEM 6 26 POTENTIAL.

FT DOMAIN 27 51 EXTRACELLULAR (POTENTIAL).

FT TRANSMEM 52 72 POTENTIAL.

FT DOMAIN 73 110 CYTOPLASMIC (POTENTIAL).

FT TRANSMEM 111 131 POTENTIAL.

FT DOMAIN 132 137 EXTRACELLULAR (POTENTIAL).

SQ SEQUENCE 137 AA; 15799 MW; C90D4BDC2550CDC0 CRC64;

Query Match

27.1%; Score 212.5; DB 1; Length 137;

```

DR   GeneDB_SPombe: SPAC3C4.05; -.
DR   InterPro; IPR003377; Cornichon.
DR   Pfam; PF03311; Cornichon; 1.
DR   PROSITE; PS01340; CORNICHON; 1.
KW   Hypothetical protein; Transmembrane.
FT   TRANSMEM 8 28 POTENTIAL.
FT   TRANSMEM 54 74 POTENTIAL.
FT   TRANSMEM 113 133 POTENTIAL.
SQ   SEQUENCE 134 AA; 15738 MW; 71858F624E87F523 CRC64;

Query Match      26.1%; Score 204.5; DB 1; Length 134;
Best Local Similarity 35.0%; Pred. No. 6e-13;
Matches 48; Conservative 30; Mismatches 52; Indels 7; Gaps 3;

QY   6 AAFVMLALLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVLPYLIHAFFCFM 65
DQ   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB   3 SAWIYFTSLMTLCANIMLQVPTVMYSDLKODFINPIDLSRLKNWYVLPMEGQAFSALL 62
QY   66 FLCAEAWLTGLNMPLLAYHIWYNSRPMVSGPLGYDPTTINNA-DI---LAYCKEGWCKLAF 125
DQ   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB   63 LLLSGAWITFLNVPMLAWN-----AKMNGNTHMDSTTFPK-DVSSR-QKRSFFKLAC 115
QY   126 YLLAFFYYLYGMIYVLV 142
DQ   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB   116 FAVFFVYVLFVSLV 132

RESULT 11
YB60 YEAST
ID   YB60 YEAST STANDARD; PRT; 142 AA.
AC   P3812;
DT   01-OCT-1994 (Rel. 30, Created)
DT   01-OCT-1994 (Rel. 30, Last sequence update)
DT   16-OCT-2001 (Rel. 40, Last annotation update)
DE   Hypothetical 16.3 kDa protein in DURI.2-AME1 intergenic region.
GN   YBR210W OR YBR1457.
OS   Saccharomyces cerevisiae (Baker's yeast).
OC   Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
OC   Saccharomycetales; Saccharomycetaceae; Saccharomycetes.
OX   NCBI_TaxID=4932;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   STRAIN=S288C;
RA   Rieger M.;
RL   Submitted (AUG-1994) to the EMBL/GenBank/DBJ databases.
CC   -!- SUBCELLULAR LOCATION: Integral membrane protein (Potential).
CC   -!- SIMILARITY: BELONGS TO THE CORNICHON FAMILY.
CC   -----
CC   This SWISS-PROT entry is copyright. It is produced through a collaboration
CC   between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC   the European Bioinformatics Institute. There are no restrictions on its
CC   use by non-profit institutions as long as its content is in no way
CC   modified and this statement is not removed. Usage by and for commercial
CC   entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC   or send an email to license@isb-sib.ch)
CC   -----
DR   EMBL; Z36079; CAA85174.1; -.
DR   PIR; S46084; S46084.
DR   SGD; S0000414; YBR210W.
DR   InterPro; IPR003377; Cornichon.
DR   Pfam; PF03311; Cornichon; 1.
DR   PROSITE; PS01340; CORNICHON; 1.
KW   Hypothetical protein; Transmembrane.
FT   TRANSMEM 8 28 POTENTIAL.
FT   TRANSMEM 56 76 POTENTIAL.
FT   TRANSMEM 115 135 POTENTIAL.
SQ   SEQUENCE 142 AA; 16347 MW; E3329C122326A6A0 CRC64;

Query Match      24.7%; Score 193.5; DB 1; Length 142;
Best Local Similarity 32.4%; Pred. No. 7.3e-12;
Matches 45; Conservative 27; Mismatches 52; Indels 15; Gaps 3;

QY   10 YMLALLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVLPYLIHAFFCFMFLCA 69
DQ   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB   9 FVTGLILNCLNSICQIYFTIDYGLADYIINSIEUCKRVNLSVPEALQAFISALFLFN 68
QY   70 AEWLTGLNMPLLAYHIWYNSRPMVSGPLGYDPTTINNA-DI---LAYCKEGWCKLAF 125
DQ   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB   69 GYWFVFLNVPVLAYNASK-----VYKTHLLDADTIPRKLGRCKIECFKLGF 117
QY   126 YLLAFFYYLYGMIYVLVSS 144
DQ   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB   118 YLLIFFFYFYMVTALLEN 136

RESULT 12
TATC_HAEN
ID   TATC_HAEN STANDARD; PRT; 256 AA.
AC   P44560;
DT   01-NOV-1995 (Rel. 32, Created)
DT   01-NOV-1995 (Rel. 32, Last sequence update)
DT   28-FEB-2003 (Rel. 41, Last annotation update)
DE   Sec-independent protein translocase protein tatC.
GN   TATC OR HI0188.
OS   Haemophilus influenzae.
OC   Bacteria; Proteobacteria; Gammaproteobacteria; Pasteurellales;
OC   Pasteurellaceae; Haemophilus.
OX   NCBI_TaxID=727;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   STRAIN=Rd / KW20 / ATCC 51907;
RC   MEDLINE=95350630; PubMed=7542800;
RA   Fleischmann R.D., Adams M.D., White O., Clayton R.A., Kirkness E.F.,
RA   McInerney K., Bult C.J., Tomb J.-F., Dougherty B.A., Merrick J.M.,
RA   Klenzmann J., Sutton G., Fitzhugh W., Fields C.A., Gocayne J.D.,
RA   Scott J.D., Shirley R., Liu L.-I., Glodek A., Kelley J.M.,
RA   Weidman J.P., Phillips C.A., Spriggs T., Hedblom E., Cotton M.D.,
RA   Uterback T.R., Hanna M.C., Nguyen D.T., Saudek D.M., Brandon R.C.,
RA   Fine L.D., Fritchman J.B., Fuhrmann J.L., Geoghegan N.S.M.,
RA   Gnehm C.L., McDonald L.A., Small K.V., Fraser C.M., Smith H.O.,
RA   Venter J.C.;
RT   "Whole-genome random sequencing and assembly of Haemophilus influenzae
RL   Rd."
RL   Science 269:496-512(1995).
CC   -!- FUNCTION: REQUIRED FOR CORRECT LOCALIZATION OF PRECURSOR PROTEINS
CC   BEARING SIGNAL PEPTIDES WITH THE TWIN ARGININE CONSERVED MOTIF
CC   S/T-R-X-F-L-K. THIS SEC-INDEPENDENT PATHWAY IS TERMED TAT FOR
CC   TWIN-ARGININE TRANSLLOCATION SYSTEM. THIS SYSTEM MAINLY TRANSPORTS
CC   PROTEINS WITH BOUND COFACTORS THAT REQUIRE FOLDING PRIOR TO EXPORT
CC   (BY SIMILARITY)
CC   -!- SUBCELLULAR LOCATION: Integral membrane protein. Inner membrane
CC   (Probable).
CC   -!- SIMILARITY: BELONGS TO THE TATC FAMILY.
CC   -----
CC   This SWISS-PROT entry is copyright. It is produced through a collaboration
CC   between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC   the European Bioinformatics Institute. There are no restrictions on its
CC   use by non-profit institutions as long as its content is in no way
CC   modified and this statement is not removed. Usage by and for commercial
CC   entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC   or send an email to license@isb-sib.ch)
CC   -----
DR   EMBL; U32704; AAC21857.1; -.
DR   PIR; C64145; C64145.
DR   TIGR; HI0188; -.
DR   InterPro; IPR002033; Translocase.
DR   Pfam; PF00902; TatC; 1.
DR   TIGRFAMs; TIGR00945; tatC; 1.
DR   PROSITE; PS01218; TATC; 1.
KW   Transport; Protein transport; Translocation; Transmembrane;
KW   Inner membrane; Complete proteome.
FT   TRANSMEM 26 46 POTENTIAL.
FT   TRANSMEM 77 97 POTENTIAL.
FT   TRANSMEM 117 137 POTENTIAL.
FT   TRANSMEM 158 178 POTENTIAL.
FT   TRANSMEM 195 215 POTENTIAL.

```



FT TRANSMEM 217 237 POTENTIAL.  
SQ SEQUENCE 256 AA; 28734 MW; F69971A264928DCC CRC64;  
  
Query Match 10.8%; Score 84.5; DB 1; Length 256;  
Best Local Similarity 22.2%; Pred. No. 0.37;  
Matches 32; Conservative 28; Mismatches 45; Indels 39; Gaps 7;  
  
QY 9 CYMALALLTAALIFPA--IWHIAFDKLTVDYKNPIDQCNLTNPLVLPYLIHAFPCVMF 66  
DB 24 CVCVVLVFLVAVSNDIYHFA-----APLTAVMPKGTATMIATNIQTFFPIK 74  
QY 67 LCAAEWLTGLNPLLAYHWRMSPVMSGPLYDP-----TIMNADILAYCQKEGW 120  
DB 75 LTAI--VAIFISVPLLYQIAWAFIA-----PALYQHEKRMYPILFSTILFYCG----- 122  
QY 121 CKLAFVLLAFFVLYGMIYVLVSS 144  
DB 123 -----VAFAYYI-----VPLVFS 136

RESULT 13  
YGN9\_YEAST STANDARD; PRT; 802 AA.  
AC PS3121;  
DT 01-OCT-1996 (Rel. 34, Created)  
DT 01-OCT-1996 (Rel. 34, Last sequence update)  
DT 15-JUL-1999 (Rel. 38, Last annotation update)  
DE Hypothetical 90.8 kDa protein in HUL5-SEC27 intergenic region.  
GN YGL139W OR G2812.  
OS Saccharomyces cerevisiae (Baker's Yeast).  
OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;  
OC Saccharomycetales; Saccharomycetaceae; Saccharomycetes.  
OX NCBI\_TaxID=4932;  
[1]  
[2] SEQUENCE OF 1-749 FROM N.A.  
RP STRAIN=S288C / FY1769;  
RX MEDLINE=9197983; PubMed=3046099;  
RA Voet M., Defoor E., Verhaesselt P., Riles L., Robben J., Volckaert G.;  
RT "The sequence of a nearly unclonable 22.8 kb segment on the left arm  
RT chromosome VII from Saccharomyces cerevisiae reveals ARO2, RPL9A,  
RT TPI1, MRF1 genes and six new open reading frames."  
RL Yeast 13:177-182(1997).  
RN [2]  
RP SEQUENCE OF 616-802 FROM N.A.  
RC STRAIN=S288C / FY1679;  
RX MEDLINE=96437978; PubMed=8840506;  
RA Escaribano V., Erasó P., Portillo F., Mazon M.J.;  
RT "Sequence analysis of a 14.6 kb DNA fragment of Saccharomycetes  
RT cerevisiae chromosome VII reveals SEC27, SSM1b, a putative  
RT S-adenosylmethionine-dependent enzyme and six new open reading  
RT frames."  
RL Yeast 12:887-892(1996).  
RN [2]  
RP SUBCELLULAR LOCATION: Integral membrane protein (Potential).  
CC -!- SIMILARITY: TO YEAST YAL053W AND S.POMBE SPAC1F7.03.  
CC  
CC This SWISS-PROT entry is copyright. It is produced through a collaboration  
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
CC the European Bioinformatics Institute. There are no restrictions on its  
CC use by non-profit institutions as long as its content is in no way  
CC modified and this statement is not removed. Usage by and for commercial  
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/  
CC or send an email to license@isb-sib.ch).  
CC  
CC ENBL; X99960; CAA68223.1; --  
DR ENBL; Z72661; CAA96851.1; --  
DR ENBL; Z72660; CAA96850.1; --  
DR ENBL; X92670; CAA63357.1; --  
DR PIR; S64153; S64153.  
DR SGD; S0003107; YGL139W.  
DR Hypothetical protein; Transmembrane.  
KW TRANSMEM 3 23 POTENTIAL.  
FT TRANSMEM 170 190 POTENTIAL.  
FT TRANSMEM 324 344 POTENTIAL.

FT TRANSMEM 406 426 POTENTIAL.  
FT TRANSMEM 468 488 POTENTIAL.  
FT TRANSMEM 516 516 POTENTIAL.  
FT TRANSMEM 526 546 POTENTIAL.  
FT TRANSMEM 558 578 POTENTIAL.  
SQ SEQUENCE 802 AA; 90761 MW; 7BA13714AD912295 CRC64;  
  
Query Match 10.5%; Score 82.5; DB 1; Length 802;  
Best Local Similarity 21.8%; Pred. No. 1.8;  
Matches 29; Conservative 19; Mismatches 48; Indels 37; Gaps 5;  
  
QY 12 LALLTAALIFPAIWHIAFDKLTVDYKNPIDQCNLTNPLVLPYLIHAFPCVMF 66  
DB 412 LFTLLSCGLMLAAWRTVFFARRSVALYN-----NPAALLYGDEVVHLKYGFFYTF 463  
QY 67 LCAAEWLTGLNPLLAYHWRMSPVMSGPLYDP-----TIMNADILAYCQKEGWCKLAPY 126  
DB 464 NANHYW-----WNIVLSY-----IFVKSLLVGFAQAASQTQLFPM 499  
QY 127 LLAFFVLYGMIY 139  
DB 500 FILDLFVFAIY 512

RESULT 14  
NU4M\_CERCA STANDARD; PRT; 446 AA.  
AC Q34048; Q34053;  
DT 15-JUL-1998 (Rel. 36, Created)  
DT 15-JUL-1998 (Rel. 36, Last sequence update)  
DT 15-JUL-1998 (Rel. 36, Last annotation update)  
DE NADH-ubiquinone oxidoreductase chain 4 (EC 1.6.5.3).  
GN ND4.  
OS Ceratitidis capitata (Mediterranean fruit fly).  
OC Mitochondrion.  
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
OC Tephritidae; Tephritidae; Ceratitidis.  
OX NCBI\_TaxID=7213;  
[1]  
[2] SEQUENCE FROM N.A.  
RP STRAIN=Guatemala laboratory colony, and Hawaii laboratory colony;  
RX MEDLINE=95261546; PubMed=7742977;  
RA Gasparich G.E., Sheppard W.S., Han H.Y., McPherson B.A., Steck G.J.;  
RT "Analysis of mitochondrial DNA and development of PCR-based  
RT diagnostic molecular markers for Mediterranean fruit fly (Ceratitidis  
RT capitata) populations."  
RL Insect Mol. Biol. 4:61-67(1995).  
CC -!- CATALYTIC ACTIVITY: NADH + ubiquinone = NAD(+) + ubiquinol.  
CC  
CC This SWISS-PROT entry is copyright. It is produced through a collaboration  
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
CC the European Bioinformatics Institute. There are no restrictions on its  
CC use by non-profit institutions as long as its content is in no way  
CC modified and this statement is not removed. Usage by and for commercial  
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/  
CC or send an email to license@isb-sib.ch).  
CC  
CC ENBL; U12925; AAA85797.1; --  
DR ENBL; U12924; AAA85796.1; --  
DR InterPro; IPR003918; NADH\_oxred4.  
DR InterPro; IPR001750; Oxidored\_q1.  
DR InterPro; IPR000260; Oxidored\_q5\_N.  
DR Pfam; PF00361; oxidored\_q1; 1\_N.  
DR Pfam; PF01059; oxidored\_q5\_N; 1.  
DR PRINTS; PR01437; NUOXDRDTASE4.  
DR KX Oxidoreductase; NAD; Ubiquinone, Mitochondrion.  
SQ SEQUENCE 446 AA; 50967 MW; E9AAAC06796897FD CRC64;

Query Match 10.3%; Score 81; DB 1; Length 446;  
Best Local Similarity 27.5%; Pred. No. 1.4;  
Matches 41; Conservative 21; Mismatches 35; Indels 52; Gaps 11;



[illegible]



GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 11, 2003, 14:40:00 ; Search time 33 Seconds  
(without alignments)  
184.629 Million cell updates/sec

Title: US-09-918-585a-322  
Perfect score: 784  
Sequence: 1 MATFAFCYMLALLTLAAL.....FYLLAFYYLYGMIVLVSS 144

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

- Database : Issued Patents AA:\*
- 1: /cgn2\_6/ptodata/1/iaa/5A-COMB.pep.\*
  - 2: /cgn2\_6/ptodata/1/iaa/5B-COMB.pep.\*
  - 3: /cgn2\_6/ptodata/1/iaa/6A-COMB.pep.\*
  - 4: /cgn2\_6/ptodata/1/iaa/6B-COMB.pep.\*
  - 5: /cgn2\_6/ptodata/1/iaa/PCTUS-COMB.pep.\*
  - 6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	784	100.0	144	2	US-08-950-168-1
2	784	100.0	144	4	US-09-365-705-1
3	784	100.0	144	4	US-09-702-705-327
4	784	100.0	144	4	US-09-736-457-327
5	784	100.0	145	4	US-09-257-179-63
6	548	69.9	144	2	US-08-950-168-3
7	548	69.9	144	4	US-09-365-705-3
8	244.5	31.2	139	4	US-09-489-847-219
9	244.5	31.2	155	4	US-09-489-847-374
10	196	25.0	35	4	US-09-257-179-120
11	173	22.1	30	4	US-09-257-179-119
12	167	21.3	30	4	US-09-257-179-118
13	84.5	10.8	163	3	US-09-053-197A-26
14	84.5	10.8	163	4	US-09-085-761A-26
15	84.5	10.8	2254	2	US-08-286-819A-28
16	84.5	10.8	2254	3	US-08-980-357-28
17	77.5	9.9	692	4	US-09-252-991A-23903
18	73.5	9.4	505	4	US-09-328-352-7155
19	72	9.2	251	4	US-09-191-468-72
20	72	9.2	251	4	US-09-191-468-74
21	72	9.2	251	4	US-09-191-468-76
22	72	9.2	251	4	US-09-191-468-78
23	72	9.2	251	4	US-09-191-468-80
24	72	9.2	251	4	US-09-191-468-82
25	72	9.2	251	4	US-09-191-468-84
26	72	9.2	251	4	US-09-191-468-86
27	72	9.2	797	2	US-08-700-013B-19

28	72	9.2	797	2	US-08-700-013B-21
29	72	9.2	797	3	US-09-182-728A-2
30	72	9.2	797	4	US-09-191-468-120
31	72	9.2	797	4	US-09-191-468-122
32	72	9.2	797	4	US-09-191-468-124
33	72	9.2	797	4	US-09-191-468-124
34	72	9.2	797	4	US-09-795-232-2
35	72	9.2	799	2	US-08-700-013B-27
36	71	9.1	578	4	US-09-740-041-4
37	70	8.9	177	2	US-08-700-013B-11
38	70	8.9	177	2	US-08-700-013B-13
39	69.5	8.9	300	4	US-09-393-634-19
40	69.5	8.9	307	4	US-09-393-634-53
41	68.5	8.7	352	4	US-09-138-452A-397
42	68	8.7	526	4	US-09-205-815B-42
43	67.5	8.6	542	1	US-09-328-352-7475
44	67.5	8.6	542	1	US-08-246-583-3
45	66.5	8.5	54	4	US-09-636-791A-5
					US-09-225-024-16

ALIGNMENTS

RESULT 1  
US-08-950-168-1  
; Sequence 1, Application US/08950168  
; Patent No. 5968744  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN CORNICHON PROTEIN  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/950,168  
; FILING DATE: Herewith  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0401 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 144 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: BLADNOT04  
; CLONE: 1318847  
; US-08-950-168-1

Query Match 100.0%; Score 784; DB 2; Length 144;  
Best Local Similarity 100.0%; Pred. No. 3.8e-79;

*Wade*



```
; SEQ ID NO 327
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-327

Query Match      100.0%; Score 784; DB 4; Length 144;
Best Local Similarity 100.0%; Pred. No. 3.8e-79;
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVPEYLIHA 60
Db 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVPEYLIHA 60

Qy 61 FFCVMFLCAAEWLTGLNMLLAYHIWYMSRPVMSGPLYDPTTINMADILAYCQKEGW 120
Db 61 FFCVMFLCAAEWLTGLNMLLAYHIWYMSRPVMSGPLYDPTTINMADILAYCQKEGW 120

Qy 121 CKLAFYLLAFYYLYGMIYVLVSS 144
Db 121 CKLAFYLLAFYYLYGMIYVLVSS 144

RESULT 5
US-09-257-179-63
; Sequence 63, Application US/09257179
; Patent No. 6410709
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 29 Human Secreted Proteins
; FILE REFERENCE: P2015P1
; CURRENT APPLICATION NUMBER: US/09/257,179
; CURRENT FILING DATE: 1999-02-25
; EARLIER APPLICATION NUMBER: PCT/US98/17709
; EARLIER FILING DATE: 1998-08-27
; EARLIER APPLICATION NUMBER: 60/056,270
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 60/056,271
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 60/056,247
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 60/056,073
; EARLIER FILING DATE: 1997-08-29
; NUMBER OF SEQ ID NOS: 128
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 63
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (145)
; OTHER INFORMATION: Xaa equals stop translation
US-09-257-179-63

Query Match      100.0%; Score 784; DB 4; Length 145;
Best Local Similarity 100.0%; Pred. No. 3.8e-79;
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVPEYLIHA 60
Db 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVPEYLIHA 60

Qy 61 FFCVMFLCAAEWLTGLNMLLAYHIWYMSRPVMSGPLYDPTTINMADILAYCQKEGW 120
Db 61 FFCVMFLCAAEWLTGLNMLLAYHIWYMSRPVMSGPLYDPTTINMADILAYCQKEGW 120

Qy 121 CKLAFYLLAFYYLYGMIYVLVSS 144
Db 121 CKLAFYLLAFYYLYGMIYVLVSS 144

RESULT 6
```

```
US-08-950-168-3
; Sequence 3, Application US/08950168
; Patent No. 5968744
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: HUMAN CORNICHON PROTEIN
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/950,168
; FILING DATE: Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0401 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 144 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 886769
; US-08-950-168-3

Query Match      69.9%; Score 548; DB 2; Length 144;
Best Local Similarity 66.7%; Pred. No. 4.3e-53;
Matches 96; Conservative 23; Mismatches 25; Indels 0; Gaps 0;

Qy 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVPEYLIHA 60
Db 1 MAFNFTAFTYVIALIGDAFLIFFAIFHVIADFELKTDYKNPIDOCNSLNPLVPEYLIHI 60

Qy 61 FFCVMFLCAAEWLTGLNMLLAYHIWYMSRPVMSGPLYDPTTINMADILAYCQKEGW 120
Db 61 FLNLLFLFCGEWSLCINILIAHYIWRKNRPVMSGPLYDPTTVLKTDTLYRNMREGW 120

Qy 121 CKLAFYLLAFYYLYGMIYVLVSS 144
Db 121 IKLAVYLISFPYYIYGMVYSLIST 144

RESULT 7
US-09-365-705-3
; Sequence 3, Application US/09365705
; Patent No. 6348576
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; Corley, Neil C.
; Shah, Purvi
; TITLE OF INVENTION: HUMAN CORNICHON PROTEIN
```

```

;
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA: US/09/365,705
; APPLICATION NUMBER: US/09/365,705
; FILING DATE: 02-Aug-1999
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/950,168
; FILING DATE: 14-OCT-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0401 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 144 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 886769
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-365-705-3

Query Match 69.9%; Score 548; DB 4; Length 144;
Best Local Similarity 66.7%; Pred. No. 4.3e-53;
Matches 96; Conservative 23; Mismatches 25; Indels 0; Gaps 0;

QY 1 MAFTFAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLPYLIHA 60
Db 1 MAFNFTAFYIYVALIGDAFLIFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLPYLIHI 60

QY 61 FFCVWFLCAAEMLTGLNMPLLAYHIWRYMSRPVMSGPGLYDPTTMMNADILAYCQEGW 120
Db 61 FLNLLFLFCGEWFLSCINIPLIAYHIWRYMSRPVMSGPGLYDPTTMMNADILAYCQEGW 120

QY 121 CKLAFYLLAFFYYLYGMIYVLVS 144
Db 121 IKLAVYLLISFFYYLYGMYVSLIST 144

RESULT 8
US-09-489-847-219
; Sequence 219, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 374
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-489-847-374

Query Match 31.2%; Score 244.5; DB 4; Length 155;
Best Local Similarity 38.0%; Pred. No. 1.5e-19;
Matches 52; Conservative 24; Mismatches 60; Indels 1; Gaps 1;

QY 7 AFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLPYLIHAFCVWF 66
Db 19 AVVFVSLDDCCALLIFLSVFIITLSDLECDYINARSCSKLNKWKVIPELIGHTITVTLL 78

QY 67 LCAAEMLTGLNMPLLAYHIWRYMSRPVMSGPGLYDPTTMMNADILAYCQEGWCKLAFY 126
Db 79 LMSLHWFIFLLNLPVATNIIYRIWVP-SGNMGVDFDTEIHNRGOLKSHMKEMIKLGPH 137

QY 127 LLAFFYYLYGMIYVLVS 143
Db 127 LLAFFYYLYGMIYVLVS 143

RESULT 9
US-09-489-847-374
; Sequence 374, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 374
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-489-847-374

Query Match 31.2%; Score 244.5; DB 4; Length 155;
Best Local Similarity 38.0%; Pred. No. 1.5e-19;
Matches 52; Conservative 24; Mismatches 60; Indels 1; Gaps 1;

QY 7 AFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLPYLIHAFCVWF 66
Db 19 AVVFVSLDDCCALLIFLSVFIITLSDLECDYINARSCSKLNKWKVIPELIGHTITVTLL 78

QY 67 LCAAEMLTGLNMPLLAYHIWRYMSRPVMSGPGLYDPTTMMNADILAYCQEGWCKLAFY 126
Db 79 LMSLHWFIFLLNLPVATNIIYRIWVP-SGNMGVDFDTEIHNRGOLKSHMKEMIKLGPH 137

QY 127 LLAFFYYLYGMIYVLVS 143
Db 127 LLAFFYYLYGMIYVLVS 143
```



```

RESULT 14
US-09-085-761A-26
; Sequence 26, Application US/09085761A
; Patent No. 6335178
; GENERAL INFORMATION:
; APPLICANT: Weiner, Joel H.
; APPLICANT: Turner, Raymond J.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR PROTEIN
; TITLE OF INVENTION: SECRETION
; NUMBER OF SEQUENCES: 77
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Medlen & Carroll, LLP
; STREET: 220 Montgomery Street, Suite 2200
; CITY: San Francisco
; STATE: California
; COUNTRY: United States of America
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/085,761A
; FILING DATE: 28-MAY-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Carroll, Peter G
; REGISTRATION NUMBER: 32,837
; REFERENCE/DOCKET NUMBER: UALB-03356
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 705-8410
; TELEFAX: (415) 397-8338
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 163 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
;
US-09-085-761A-26
Query Match 10.8%; Score 84.5; DB 4; Length 163;
Best Local Similarity 22.2%; Pred. No. 0, 076;
Conservative 28; Mismatches 45; Indels 39; Gaps 7;

```

```

9 QY CYMLALLTLAALFFA--IWHIIAFBELKTDYKNPDIQCNLTNPLVLPEVLIHAFECVMF 66
DB : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
14 QY CVICWLVFVAVYFSDIYHFVA-----APLTAVMPKGATMIATNIOTPFETPIK 64
DB : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
67 QY LCAEWITLGLNPLLAYHILWYMSRPMVMSGGLYDP-----TTIMNADILAYCOREGW 120
DB : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
65 QY LTAI--VAIFISVBLYQWAFIA-----PALYQHEKRMYPFLFSSILFYCG---- 112
DB : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
121 QY CKLAFYLLAFYLYGMYVLVNS 144
DB : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
113 QY -----VAFAYI--VFPLVFS 126
DB : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 15
US-08-286-819A-28
; Sequence 28, Application US/08286819A
; Patent No 5871910
; GENERAL INFORMATION:
; APPLICANT: ARTHUR, MICHEL
; APPLICANT: DUKTA-MALEN, SYLVIE
; APPLICANT: MOLINAS, CATHERINE
; APPLICANT: COURVALIN, PATRICE
; TITLE OF INVENTION: POLYPEPTIDES IMPLICATED IN THE
; TITLE OF INVENTION: EXPRESSION OF RESISTANCE TO GLYCOPOLYMERES, IN PARTICULAR
; TITLE OF INVENTION: IN GRAM-POSITIVE BACTERIA, NUCLEOTIDE SEQUENCE CODING FOR
; TITLE OF INVENTION: THESE POLYPEPTIDES AND USE FOR DIAGNOSIS
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; STREET: 1755 S. Jefferson Davis Highway, Suite 400
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/286,819A
; FILING DATE: 05-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/174,682
; FILING DATE: 28-DEC-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/917,146
; FILING DATE: 10-AUG-1992
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR/91/00855
; FILING DATE: 29-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 9013579
; FILING DATE: 31-OCT-1990
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Oblon, No. 5871910man F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/POCKET NUMBER: 660-060-0 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2254 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

```



MOLECULE TYPE: protein  
US-08-286-819A-28

Query Match 10.8%; Score 84.5; DB 2; Length 2254;  
Best Local Similarity 22.7%; Pred. No. 1.9;  
Matches 22; Conservative 16; Mismatches 32; Indels 27; Gaps 3;  
Qy 50 PLVLPEVLI-----HAFPCWFLCAAEWLTGLNMPLLAYHIWRY----- 89  
Db 1114 PLASFFYLVPFPTERVGLNYEHRHYCL-----WMAGGRCTPCSFASLWRYGNDNRQVRG 1166  
Qy 90 MSRPVMSGGLYDPTTIMNADILAYCOKEGWCKLAFY 126  
Db 1167 IQQIRAFQSMYQCGTIRDFLYSSCAEESRCEIYFY 1203

Search completed: September 11, 2003, 14:50:22  
Job time : 34 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 11, 2003, 14:36:10 ; Search time 40 Seconds  
(without alignments)  
346.207 Million cell updates/sec

Title: US-09-918-585A-322  
Perfect score: 784  
Sequence: 1 MAFTFAAPCYMLALLTAAL.....PYLLAFFYLYGMIYVLVSS 144

Scoring table:  
BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues  
Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : PIR 76.\*  
1: pir1.\*  
2: pir2.\*  
3: pir3.\*  
4: pir4.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	ID	Description
1	548	69.9	144	2 A56724	cni protein - frui
2	472	60.2	145	2 T24750	hypothetical prote
3	443	56.5	136	2 A9261	protein T0988.3 [i
4	212.5	27.1	138	2 S4058	probable membrane
5	204.5	26.1	134	2 T38516	cornichon homolog
6	193.5	24.7	142	2 S46084	probable membrane
7	159.5	20.3	126	2 D96653	hypothetical prote
8	128	16.3	160	2 G90096	hypothetical prote
9	128	16.3	160	2 H90129	hypothetical prote
10	128	16.3	160	2 B90133	hypothetical prote
11	122.5	15.6	145	2 T06616	hypothetical prote
12	90	11.5	249	2 T50162	hypothetical prote
13	86	11.0	259	2 AG0915	sec-independent pr
14	84.5	10.8	256	2 C64145	hypothetical prote
15	83.5	10.7	495	2 T20885	hypothetical prote
16	82.5	10.5	802	2 S64153	probable membrane
17	82	10.5	422	2 A83635	probable O-antigen
18	81	10.3	502	1 I30010	NADH2 dehydrogenas
19	81	10.3	502	2 T27908	hypothetical prote
20	79.5	10.1	2848	2 T32550	hypothetical prote
21	77.5	9.9	296	2 H69796	lactose permease h
22	77.5	9.9	661	2 G82985	probable choline t
23	77	9.8	270	2 F95978	probable sugar upt
24	77	9.8	270	2 C75473	probable Sec-indep
25	76.5	9.8	354	2 T29673	hypothetical prote
26	76.5	9.8	382	2 D58930	ubiquinol-cytochro
27	76	9.7	559	2 B72487	hypothetical prote
28	76	9.7	590	1 S34960	NADH2 dehydrogenas
29	75.5	9.6	209	1 S48459	probable dual spec

30	75.5	9.6	498	2 A97710	ADP,ATP carrier pr
31	75	9.6	484	2 T26190	hypothetical prote
32	74.5	9.5	292	2 AC1460	sugar ABC transpor
33	74.5	9.5	292	2 AD1097	sugar ABC transpor
34	74.5	9.5	323	2 F84526	hypothetical prote
35	74.5	9.5	458	2 S61974	SSUI protein - yea
36	74	9.4	253	2 A83719	hypothetical prote
37	73	9.3	154	2 S30728	hypothetical prote
38	73	9.3	258	2 H65188	sec-independent pr
39	73	9.3	258	2 H91224	sec-independent pr
40	73	9.3	258	2 F86071	ubiquinol-cytochro
41	73	9.3	363	1 CBUTB	hypothetical prote
42	73	9.3	420	2 T32157	hypothetical prote
43	73	9.3	497	2 AG1768	hypothetical prote
44	73	9.3	1242	2 T39453	probable mrna stab
45	72.5	9.2	164	2 B81414	probable integral

ALIGNMENTS

RESULT 1

A56724

cni protein - fruit fly (Drosophila melanogaster)

C:Species: Drosophila melanogaster

C:Date: 21-Jul-1995 #sequence\_revision 28-Jul-1995 #text\_change 21-Jul-2000

C:Accession: A56724

R:Roth, S.; Neuman-Silberberg, F.S.; Barcelo, G.; Schuepbach, T.

Cell 81, 967-978, 1995

A:Title: cornichon and the EGF receptor signaling process are necessary for both anterior

A:Reference number: A56724; MUID:95300228; PMID:7540118

A:Accession: A56724

A:Status: preliminary; not compared with conceptual translation

A:Molecule type: mRNA

A:Residues: 1-144 <ROT>

A:Cross-references: GB:U28069; NID:9886768; PIDN:AAA86527.1; PID:9886769

C:Genetics:

A:Gene: FlyBase:cni

A:Cross-references: FlyBase:FBgn0000339

C:Superfamily: Drosophila cornichon protein

Query Match 69.9%; Score 548; DB 2; Length 144;  
Best Local Similarity 66.7%; Pred. No. 9e-50;  
Matches 96; Conservative 23; Mismatches 25; Indels 0; Gaps 0;

Qy 1 MAFTFAAPCYMLALLTAALFFAIWHIIAIDELKTDYKNPIDOCNTLNPLVLPYLIHA 60

Db 1 MAFTFAPTYIYVIGDFAFLFFAIHFVIAFDLKTDKYKNPIDOCNSLNPLVLPYLIHI 60

Qy 61 FFCVNFCAAEWLTLGLNMLLAYHWRYSRPMVSGGLYDPTTMMADILAYCQKEGW 120

Db 61 FLNLLFLFCGEMFSLCINIPLIAYHWRYSRPMVSGGLYDPTTTLKTLTYLRNMRSGW 120

Qy 121 CKLAPYLLAFPYLYGMIYVLVSS 144

Db 121 IKLAVYLISFFYYIGMVISLIST 144

RESULT 2

T24750

hypothetical protein T0988.3 - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C:Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 11-Jan-2000

C:Accession: T24750

R:Steward, C.

submitted to the EMBL Data Library, August 1996

A:Reference number: Z19931

A:Accession: T24750

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA

A:Residues: 1-145 <WIL>

A:Cross-references: EMBL:Z78065; PIDN:CAB01516.2; GSPDB:GN000023; CESP:T09E8.3

A:Experimental source: clone T09E8

\* A; ACCESSION: S61058

N: Alternate names: hypothetical protein YBR1457

[illegible]

C;Keywords: nucleomorph

Query Match	16.3%	Score 128;	DB 2;	Length 160;
Best Local Similarity	29.4%;	Pred. No. 4.9e-06;		
Matches	32;	Conservative	22;	Mismatches 47;
			Indels	8;
Gaps	3			

Qy 33 ELKTDYKNPIDQCNTLNPVLPEYLIIHAFCCVMFLCAAEWLTLGLINMPELLAIHYIWRMSR 92

Db 38 DLSSTGVNVEVCNKVNLKVPYLAHLFIETAFVFCWGVTVGFNEFPIKVFNAQW... 94

QY 93 PVMGPGGLYDPTTMMADILAYCQKGEKCKLAFYLLAFYLYL-GMIYV 140  
 Db 95 --YEGKHQDLSAQIFN--VLSRELRTVIKAKSAFFIIIVITWEMWIV 139  
 RESULT 10  
 B90133  
 hypothetical protein orf160 [imported] - Guillardia theta nucleomorph  
 C:Species: nucleomorph Guillardia theta  
 A:Note: a nucleomorph is the vestigial nucleus of a eukaryotic endosymbiont  
 C:Date: 10-May-2001 #sequence\_revision 10-May-2001 #text\_change 24-May-2001  
 C:Accession: B90133  
 R:Douglas, S.; Zauner, S.; Fraunholz, M.; Beaton, M.; Penny, S.; Deng, L.T.; Wu, X.; Reil  
 Nature 410, 1091-1096, 2001  
 A:Title: The highly reduced genome of an enslaved algal nucleus.  
 A:Reference number: A99082; MUID:11323671; PMID:11323671  
 A:Accession: B90133  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-160 <DOU>  
 A:Cross-references: GB:AF083031; NID:gl3794354; PIDN:AAK39731.1; GSPDB:GN00152  
 C:Genetics:  
 A:Gene: orf160  
 A:Map position: 3  
 A:Genome: nucleomorph  
 C:Keywords: nucleomorph  
 Query Match 16.3%; Score 128; DB 2; Length 160;  
 Best Local Similarity 29.4%; Pred. No. 4.9e-06;  
 Matches 32; Conservative 22; Mismatches 47; Indels 8; Gaps 3;  
 QY 33 ELKTDYKNPIDQCNTLNPLVPEYLIIHAFPCVMFLCAAEWLTGLNMPLLAYHIWYMSR 92  
 Db 38 DLSIDTVNPEVCCKNQKLVPEYLAHLFLSLAFVIRGMWIVGFLNPFIFYNFAQW--- 94  
 QY 93 PVMGPGGLYDPTTMMADILAYCQKGEKCKLAFYLLAFYLYL-GMIYV 140  
 Db 95 --YEGKHQDLSAQIFN--VLSRELRTVIKAKSAFFIIIVITWEMWIV 139  
 RESULT 11  
 T06616  
 hypothetical protein F16J13.160 - Arabidopsis thaliana  
 C:Species: Arabidopsis thaliana (mouse-ear cress)  
 C:Date: 23-Apr-1999 #sequence\_revision 23-Apr-1999 #text\_change 22-Oct-1999  
 C:Accession: T06616  
 R:Bevan, M.; Hilbert, H.; Braun, M.; Holzer, E.; Brandt, A.; Duesterhoeft, A.; Bancroft,  
 submitted to the Protein Sequence Database, April 1999  
 A:Reference number: Z15789  
 A:Accession: T06616  
 A:Molecule type: DNA  
 A:Residues: 1-145 <BEV>  
 A:Cross-references: EMBL:AL049638; GSPDB:GN00062; ATSP:F16J13.160  
 A:Experimental source: cultivar Columbia; BAC clone F16J13  
 C:Genetics:  
 A:Gene: AtSP:F16J13.160  
 A:Map position: 4  
 A:Introns: 34/3; 95/2; 136/2  
 Query Match 15.6%; Score 122.5; DB 2; Length 145;  
 Best Local Similarity 29.0%; Pred. No. 1.7e-05;  
 Matches 31; Conservative 21; Mismatches 48; Indels 7; Gaps 2;  
 QY 33 ELKTDYKNPIDQCNTLNPLVPEYLIIHAFPCVMFLCAAEWLTGLNMPLLAYHIWYMSR 92  
 Db 40 DLEDFRINPDYSSRINRMVPEFGLQGLCYITLTGHWFAVLSLPHLFINRLMKR 99  
 QY 93 PVMGPGGLYDPTTMMADILAYCQKGEKCKLAFYLLAFYLYL-GMIYV 139  
 Db 100 -----EHLADVTLENTN--KWEQKRVYKIGHIALSIFITTYWLIH 139

RESULT 12  
 T50162  
 hypothetical protein SPAC227.06 [imported] - fission yeast (Schizosaccharomyces pombe)  
 C:Species: Schizosaccharomyces pombe  
 C:Date: 09-Jun-2000 #sequence\_revision 09-Jun-2000 #text\_change 09-Jun-2000  
 C:Accession: T50162  
 R:Zimmermann, W.; Wambutt, R.; McDougall, R.C.; Rajandream, M.A.; Barrell, B.G.  
 submitted to the EMBL Data Library, November 1999  
 A:Reference number: Z25036  
 A:Accession: T50162  
 A:Status: preliminary; translated from GB/EMBL/DDBJ  
 A:Molecule type: DNA  
 A:Residues: 1-249 <ZIM>  
 A:Cross-references: EMBL:AL13156; PIDN:CAB61455.1; GSPDB:GN00066; SPDB:SPAC227.06  
 A:Experimental source: strain 972h(-); cosmid c227  
 C:Genetics:  
 A:Gene: SPDB:SPAC227.06  
 A:Map position: 1  
 Query Match 11.5%; Score 90; DB 2; Length 249;  
 Best Local Similarity 22.1%; Pred. No. 0.068;  
 Matches 33; Conservative 26; Mismatches 50; Indels 40; Gaps 6;  
 QY 10 YMLALLTAALIPFA-----IWHIAFDELKTDYKNPIDQCNTLNPLVPEYLIIHAF 61  
 Db 122 YSIKKLISAASIIYGYTTIIAVLLWGLVW-----NKCNPKLLDCLCLGY 167  
 QY 62 FCVMFLCAAEWLTGLNMP-----LLAYHIWYMSRPMVSGPLGYDPTTMMADILAYC 115  
 Db 168 AIV-----WLPVSLATPPFGLLSTLASHIVKY----VLTGIGLLISIVFLTRNLYPIC 217  
 QY 116 QKEG--WCKLAFYLLAFYLYLGMIVLV 142  
 Db 218 QOAGSNLCKLLFGIIVFHCLLSLQLI 246  
 RESULT 13  
 AG0915  
 sec-independent protein translocase protein [imported] - Salmonella enterica subsp. ente  
 C:Species: Salmonella enterica subsp. enterica serovar Typhi  
 A:Note: This species has also been called Salmonella typhi  
 C:Date: 09-Nov-2001 #sequence\_revision 09-Nov-2001 #text\_change 18-Nov-2002  
 C:Accession: AG0915  
 R:Parkhill, J.; Dougan, G.; James, K.D.; Thomson, N.R.; Pickard, D.; Wain, J.; Churcher,  
 th, T.; Connor, P.; Cronin, A.; Davis, P.; Davies, R.M.; Dowd, L.; White, N.; Farrar,  
 S.; Moule, S.; O'Gaora, P.  
 Nature 413, 848-852, 2001  
 A:Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.;  
 A:Title: Complete genome sequence of a multiple drug resistant Salmonella enterica sero  
 A:Reference number: AB0502; MUID:21534947; PMID:11677608  
 A:Accession: AG0915  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-259 <PAR>  
 A:Cross-references: GB:AL513382; PIDN:CAD07917.1; PID:gl6504462; GSPDB:GN00176  
 C:Genetics:  
 A:Gene: tatC  
 C:Superfamily: conserved hypothetical protein HI0188  
 Query Match 11.0%; Score 86; DB 2; Length 259;  
 Best Local Similarity 23.7%; Pred. No. 0.19;  
 Matches 33; Conservative 25; Mismatches 35; Indels 46; Gaps 8;  
 QY 9 CYMALLLTAALIPFA--IWHIAFDELK-----TDYKNPIDQCNTLNPLVPEY 56  
 Db 23 CIVAVLLIFLALTYFANDIYHLVAAPLIKOMPQATMIATDVASPF-----FTPIKL--- 74  
 QY 57 LIHAFCVMFLCAAEWLTGLNMPLLAYHIWYMSRPMVSGPLGYDPTTMMADILAYCQ 116  
 Db 75 -----TFM-----VSLISAPVLYQWAFIA-----PALYKRRRLVVPVLVS-- 113  
 QY 117 KEGWCKLAFYL-LAFFYLL 134

```
Db 114 ----SSLLFYIGWAFAYFV 128
RESULT 14
C64145
hypothetical protein HI0188 - Haemophilus influenzae (strain Rd KW20)
C:Species: Haemophilus influenzae
C:Date: 18-Aug-1995 #sequence_revision 18-Aug-1995 #text_change 24-Sep-1999
C:Accession: C64145
R: Fleischnann, R.D.; Adams, M.D.; White, O.; Clayton, R.A.; Kirkness, E.F.; Kerlavage, A.;
Gocayne, J.D.; Scott, J.; Shirley, R.; Liu, L.I.; Glodek, A.; Kelley, J.M.; Weidman, J.
D.M.; Brandon, R.C.; Fine, L.D.; Fritchman, J.L.; Fuhrmann, J.L.; Geoghagen, N.S.M.
Science 269, 496-512, 1995
A: Authors: Gnehm, C.L.; McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter,
A: Title: Whole-genome random sequencing and assembly of Haemophilus influenzae Rd.
A: Reference number: A64000; MUID: 95350630; PMID: 7542800
A: Accession: C64145
A: Status: nucleic acid sequence not shown; translation not shown
A: Molecule type: DNA
A: Residues: 1-256 <TIGR>
A: Cross-references: GB:U32704; GB:L42023; NID: g1573143; PIDN: AAC21857.1; PID: g1573146; T
A: Note: best homolog was a hypothetical protein from Escherichia coli
C: Superfamily: conserved hypothetical protein HI0188
Query Match 10.8%; Score 84.5; DB 2; Length 256;
Best Local Similarity 22.2%; Pred. No. 0.26;
Matches 32; Conservative 28; Mismatches 45; Indels 39; Gaps 7;
QY 9 CYMLALLTAALIFFA--IWHIIAFDELKTDYKNPIDQCNTLNPLVLPYLLHAFFCVWF 66
Db 24 CVICVVLVFAVLYFSNDIYHFA-----APLTAVMPKGATMIATNIQTPTPTPIK 74
QY 67 LCAAEWLTLGLNPLLAYHIWYMRSPVMSGGLYDP-----TTMNADILAYCQEGW 120
Db 75 LTAL--VAIFISVPVLLQIWAFA-----PALYQHKRMIYPLLSSTILFYCG---- 122
QY 121 CKLAFYLLAFYLYGMIVLVSS 144
Db 123 -----VAFAYII---VFPLVFS 136
RESULT 15
T20885
hypothetical protein F14D7.6 - Caenorhabditis elegans
C: Species: Caenorhabditis elegans
C: Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C: Accession: T20885
R: Berks, M.
submitted to the EMBL Data Library, July 1996
A: Reference number: Z19340
A: Accession: T20885
A: Status: preliminary; translated from GB/EMBL/DDBJ
A: Molecule type: DNA
A: Residues: 1-495 <WIL>
A: Cross-references: EMBL: 277658; PIDN: CAB01157.1; GSPDB: GN000023; CESP: F14D7.6
A: Experimental source: clone F14D7
C: Genetics:
A: Gene: CESP: F14D7.6
A: Map position: 5
A: Introns: 20/1; 46/2; 90/3; 113/3; 142/1; 199/2; 218/2; 244/3; 301/1; 333/2; 451/2
Query Match 10.7%; Score 83.5; DB 2; Length 495;
Best Local Similarity 25.0%; Pred. No. 0.64;
Matches 41; Conservative 26; Mismatches 60; Indels 37; Gaps 11;
QY 3 FTFAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLPYLLHAF 61
Db 265 FTVVAF--LMAIVCLAACVIVOCF-----FKENYVGIDKNSDSNVWIPKYDLA 315
QY 62 FCVWFLCAAE-----WLTGLNMPLLAYHIWYMRSP--VMSGGLYDPTTIM 107
Db 316 TCIVLFMIVNIATNVEDVKRIQMLIGLGFLL-YQVFWY----PWGFSGLDPLPDG-K 370
QY 108 NADILAYC-OKEGWCK-----LAFYLLAFYLYGMIVLVSS 144
Db 371 DTDVAGGCYQSYKWCQWTTTRVPLPYLLICFIVF-FGIAPFPVES 413
Search completed: September 11, 2003, 14:42:19
Job time : 47 secs
```





GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 11, 2003, 14:41:46 ; Search time 61 Seconds  
(without alignments)  
344.449 Million cell updates/sec

Title: US-09-918-585A-322

Perfect score: 784

Sequence: 1 MAFTFAFCYMLALLTLAAL.....FYLLAFFYLYGMYIVLVSS 144

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 541936 seqs, 145912426 residues

Total number of hits satisfying chosen parameters: 541936

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	784	100.0	144	10	US-09-978-295A-322
2	784	100.0	144	10	US-09-736-457-327
3	784	100.0	144	10	US-09-978-697-322
4	784	100.0	144	10	US-09-902-941-327
5	784	100.0	144	10	US-09-978-192A-322
6	784	100.0	144	10	US-09-999-832A-322
7	784	100.0	144	10	US-09-849-626-327
8	784	100.0	144	11	US-09-978-189-322
9	784	100.0	144	11	US-09-978-608A-322
10	784	100.0	144	11	US-09-978-585A-322
11	784	100.0	144	11	US-09-978-191A-322
12	784	100.0	144	11	US-09-978-403A-322
13	784	100.0	144	11	US-09-978-564A-322
14	784	100.0	144	11	US-09-999-833A-322
15	784	100.0	144	11	US-09-981-915A-322

16	784	100.0	144	11	US-09-978-824-322	Sequence 322, App
17	784	100.0	144	11	US-09-918-585A-322	Sequence 322, App
18	784	100.0	144	11	US-09-978-423A-322	Sequence 322, App
19	784	100.0	144	11	US-09-978-193A-322	Sequence 322, App
20	784	100.0	144	11	US-09-999-830A-322	Sequence 322, App
21	784	100.0	144	11	US-09-978-757A-322	Sequence 322, App
22	784	100.0	144	11	US-09-978-187B-322	Sequence 322, App
23	784	100.0	144	11	US-09-978-643A-322	Sequence 322, App
24	784	100.0	144	11	US-09-476-300-327	Sequence 327, App
25	784	100.0	144	12	US-09-978-375A-322	Sequence 322, App
26	784	100.0	144	12	US-09-978-188A-322	Sequence 322, App
27	784	100.0	144	12	US-09-978-298A-322	Sequence 322, App
28	784	100.0	144	12	US-10-143-031A-322	Sequence 322, App
29	784	100.0	144	12	US-10-002-967A-322	Sequence 322, App
30	784	100.0	144	12	US-10-017-083A-322	Sequence 322, App
31	784	100.0	144	12	US-10-143-030A-322	Sequence 322, App
32	784	100.0	144	12	US-10-216-163-120	Sequence 120, App
33	784	100.0	144	12	US-10-145-128A-322	Sequence 322, App
34	784	100.0	144	14	US-10-044-477-1	Sequence 1, Appli
35	784	100.0	144	15	US-10-227-884-120	Sequence 120, App
36	784	100.0	144	15	US-10-230-163-120	Sequence 120, App
37	784	100.0	144	15	US-10-230-338-120	Sequence 120, App
38	784	100.0	144	15	US-10-218-631-120	Sequence 120, App
39	784	100.0	144	15	US-10-017-081A-322	Sequence 322, App
40	784	100.0	144	15	US-10-230-414-120	Sequence 120, App
41	784	100.0	144	15	US-10-017-754-327	Sequence 327, App
42	784	100.0	144	15	US-10-167-749-322	Sequence 322, App
43	784	100.0	144	15	US-10-013-921A-322	Sequence 322, App
44	784	100.0	144	15	US-10-216-159A-120	Sequence 120, App
45	784	100.0	144	15	US-10-013-929A-322	Sequence 322, App

#### ALIGNMENTS

#### RESULT 1

US-09-978-295A-322  
; Sequence 322, Application US/09978295A  
; Patent No. US20020156006A1

#### GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James;  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2630P1C11  
; CURRENT APPLICATION NUMBER: US/09/978,295A  
; CURRENT FILING DATE: 2001-10-15  
; PRIOR APPLICATION NUMBER: 09/918585

•

```

; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match      100.0%; Score 784; DB 10; Length 144;
Best Local Similarity 100.0%; Pred. No. 2.9e-78;
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  MAFTFAAFVCMALLTAALFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLPYLIHA 60
        |||||||
Db      1  MAFTFAAFVCMALLTAALFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLPYLIHA 60
        |||||||

Qy      61  FFCVMFLCAEWLTGLMPLLAYHIWYMRPVMGSLYDPTTINMADILAYCQKEGW 120
        |||||||
Db      61  FFCVMFLCAEWLTGLMPLLAYHIWYMRPVMGSLYDPTTINMADILAYCQKEGW 120
        |||||||

Qy      121  CKLAFYLLAFFYLYGMIYVLVSS 144
        |||||||
Db      121  CKLAFYLLAFFYLYGMIYVLVSS 144
        |||||||

; RESULT 2
US-09-736-457-327
; Sequence 327, Application US/09736457
; Patent No. US20020168637A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Lijun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 327
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-327

Query Match      100.0%; Score 784; DB 10; Length 144;
Best Local Similarity 100.0%; Pred. No. 2.9e-78;
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  MAFTFAAFVCMALLTAALFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLPYLIHA 60
        |||||||
Db      1  MAFTFAAFVCMALLTAALFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLPYLIHA 60
        |||||||

Qy      61  FFCVMFLCAEWLTGLMPLLAYHIWYMRPVMGSLYDPTTINMADILAYCQKEGW 120
        |||||||
Db      61  FFCVMFLCAEWLTGLMPLLAYHIWYMRPVMGSLYDPTTINMADILAYCQKEGW 120
        |||||||

Qy      121  CKLAFYLLAFFYLYGMIYVLVSS 144
        |||||||
Db      121  CKLAFYLLAFFYLYGMIYVLVSS 144
        |||||||

; RESULT 3
US-09-978-697-322
; Sequence 322, Application US/09978697
; Patent No. US20020169284A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Daniel
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630FIC27
; CURRENT APPLICATION NUMBER: US/09/978,697
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077791
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: 60/078004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078936
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
```

PRIOR APPLICATION NUMBER: 60/0789339	PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294	PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656	PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664	PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689	PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663	PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728	PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786	PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920	PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923	PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105	PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107	PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165	PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194	PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327	PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328	PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333	PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334	PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070	PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049	PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071	PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195	PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203	PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081229	PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955	PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817	PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819	PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952	PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/081838	PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568	PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569	PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704	PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804	PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700	PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797	PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796	PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336	

	Query Match	100.0%;	Score 784;	DB 10;	Length 144;
	Best Local Similarity	100.0%;	Pred. No. 2.9e-78;		
	Matches 144;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MAFTFAACVYMLALLLTAALIFFAIWHIIAFDELKTDYKXNPIDOCNTLNELVLPYLIHA	60		
Db	1	MAFTFAACVYMLALLLTAALIFFAIWHIIAFDELKTDYKXNPIDOCNTLNELVLPYLIHA	60		

Qy	61	FFCWMFLCAAEWLTLGLNPLLAYHIIWYRNSRPMVMSGGLYDPTTINNADILAYCOKEGW	120
Db	61	FFCWMFLCAAEWLTLGLNPLLAYHIIWYRNSRPMVMSGGLYDPTTINNADILAYCOKEGW	120
Qy	121	CKLAFYLLAFFYYLYGMIYVLVSS	144
Db	121	CKLAFYLLAFFYYLYGMIYVLVSS	144

## RESULT 4

```

US-09-902-941-327
; Sequence 327, Application US/09902941
; Patent No. US20020172952A1
; GENERAL INFORMATION:
; APPLICANT: Henderson, Robert A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Johnson, Jeffrey C.
; APPLICANT: Retter, Marc W.
; APPLICANT: Marnerakis, Margarita
; APPLICANT: Carter, Darrick
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: McNabb, Andrea
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; OF LUNG CANCER
; FILE REFERENCE: 21021.478C17
; CURRENT APPLICATION NUMBER: US/09/902,941
; CURRENT FILING DATE: 2001-07-10
; NUMBER OF SEQ ID NOS: 2002
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 327
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-941-327

```

## RESULT 5

```

US0001_3
: 978-1978-192A-322
: ; Sequence 322, Application US/09978192A
: ; Patent No. US20020177553A1
: ; GENERAL INFORMATION:
: ; APPLICANT: Ashkenazi, Avi
: ; APPLICANT: Baker Kevin P.
: ; APPLICANT: Botstein, David
: ; APPLICANT: Desnovers, Luc
: ; APPLICANT: Eaton, Dan
: ; APPLICANT: Ferrara, Napoleon
: ; APPLICANT: Filvaroff, Ellen
: ; APPLICANT: Fong, Sherman
: ; APPLICANT: Gao, Wei-Qiang
: ; APPLICANT: Gerber, Hanspeter
: ; APPLICANT: Gerritsen, Mary E.
: ; APPLICANT: Goddard, Audrey
: ; APPLICANT: Godowski, Paul J.

```

```

; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080328
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080333
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080334
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/081070
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081049
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081071
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081195
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081203
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081229
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081955
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081817
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081819
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081952
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081838
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082568
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082569
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082704
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082804
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082700
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082797
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082796
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: 60/083336
; PRIOR FILING DATE: 1998-04-27
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/083392
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083495
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083496
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083499
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083545
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083554
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083558
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083559
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083500
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083742
; PRIOR FILING DATE: 1998-04-30
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414

; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084441
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084637
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084598
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084627
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085339
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085338
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match      100.0%; Score 784; DB 10; Length 144;
Best Local Similarity 100.0%; Pred. No. 2.9e-78;
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  MAFTFAAFCYMLALLLTAALIFFAFIWHIIAFDELKTDYKNPIDQCNTLNPLVLPYLIHA 60
      1  MAFTFAAFCYMLALLLTAALIFFAFIWHIIAFDELKTDYKNPIDQCNTLNPLVLPYLIHA 60
Db
Qy      61  PFCVMFLCAAEWLTGLNMLLAYHWRNRPVMSGFLYDPTTINMADILAYCQKEGW 120
      61  PFCVMFLCAAEWLTGLNMLLAYHWRNRPVMSGFLYDPTTINMADILAYCQKEGW 120
Db
Qy      121  CKLAFYLLAFFYLYGMIYVLVSS 144
      121  CKLAFYLLAFFYLYGMIYVLVSS 144
Db

RESULT 6
US-09-999-832A-322
; Sequence 322, Application US/09999832A
; Publication No. US20020192706A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
```

APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James;  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2630P1C63  
CURRENT APPLICATION NUMBER: US/09/999,832A  
CURRENT FILING DATE: 2001-10-24  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/064249  
PRIOR FILING DATE: 1997-11-03  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066364  
PRIOR FILING DATE: 1997-11-21  
PRIOR APPLICATION NUMBER: 60/077450  
PRIOR FILING DATE: 1998-03-10  
PRIOR APPLICATION NUMBER: 60/077632  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077641  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077649  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077791  
PRIOR FILING DATE: 1998-03-12  
PRIOR APPLICATION NUMBER: 60/078004  
PRIOR FILING DATE: 1998-03-13  
PRIOR APPLICATION NUMBER: 60/078886  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078936  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078939  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/079294  
PRIOR FILING DATE: 1998-03-25  
PRIOR APPLICATION NUMBER: 60/079656  
PRIOR FILING DATE: 1998-03-26  
PRIOR APPLICATION NUMBER: 60/079664  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079689  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079663  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079728  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079786  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079920  
PRIOR FILING DATE: 1998-03-30  
PRIOR APPLICATION NUMBER: 60/079923  
PRIOR FILING DATE: 1998-03-30  
PRIOR APPLICATION NUMBER: 60/080105  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080107  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080165  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080194  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080327  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/080328  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/080333  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/080334  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/081070  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081049  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081071  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081195  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081203  
PRIOR FILING DATE: 1998-04-09  
PRIOR APPLICATION NUMBER: 60/081229  
PRIOR FILING DATE: 1998-04-09  
PRIOR APPLICATION NUMBER: 60/081955  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081817  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081819  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081952  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081838  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/082568  
PRIOR FILING DATE: 1998-04-21  
PRIOR APPLICATION NUMBER: 60/082569  
PRIOR FILING DATE: 1998-04-21  
PRIOR APPLICATION NUMBER: 60/082704  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082804  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082700  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082797  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082796  
PRIOR FILING DATE: 1998-04-23  
PRIOR APPLICATION NUMBER: 60/083336  
PRIOR FILING DATE: 1998-04-27  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/083392  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083495  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083496  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083499  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083545  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083554  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083558  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083559  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083500  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083742  
PRIOR FILING DATE: 1998-04-30  
PRIOR APPLICATION NUMBER: 60/084366  
PRIOR FILING DATE: 1998-05-05

Tue Sep 16 17:51:16 2003

```
; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084441
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084637
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084598
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084627
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085339
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085338
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match      100.0%; Score 784; DB 10; Length 144;
Best Local Similarity 100.0%; Pred. No. 2.9e-78;
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MAFTFAAFCYMLALLTLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVLPVLYLHA 60
Db 1 MAFTFAAFCYMLALLTLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVLPVLYLHA 60
Qy 61 FFCVMFLCAAEWLTGLNMPELLAYHIWYMSRPMVSGPGLYDPTTMMNADILAYCQKEGW 120
Db 61 FFCVMFLCAAEWLTGLNMPELLAYHIWYMSRPMVSGPGLYDPTTMMNADILAYCQKEGW 120
Qy 121 CKLAFYLLAFYYLYGMIYVLVSS 144
Db 121 CKLAFYLLAFYYLYGMIYVLVSS 144

RESULT 8
US-09-978-189-322
; Sequence 322, Application US/09978189
; Publication No. US20030004102A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C7
; CURRENT APPLICATION NUMBER: US/09/978,189
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
```



1	PRIOR APPLICATION NUMBER: 60/077450	
2	PRIOR FILING DATE: 1998-03-10	
3	PRIOR APPLICATION NUMBER: 60/077632	
4	PRIOR FILING DATE: 1998-03-11	
5	PRIOR APPLICATION NUMBER: 60/077641	
6	PRIOR FILING DATE: 1998-03-11	
7	PRIOR APPLICATION NUMBER: 60/077649	
8	PRIOR FILING DATE: 1998-03-11	
9	PRIOR APPLICATION NUMBER: 60/077791	
10	PRIOR FILING DATE: 1998-03-12	
11	PRIOR APPLICATION NUMBER: 60/078004	
12	PRIOR FILING DATE: 1998-03-13	
13	PRIOR APPLICATION NUMBER: 60/078886	
14	PRIOR FILING DATE: 1998-03-20	
15	PRIOR APPLICATION NUMBER: 60/078936	
16	PRIOR FILING DATE: 1998-03-20	
17	PRIOR APPLICATION NUMBER: 60/078910	
18	PRIOR FILING DATE: 1998-03-20	
19	PRIOR APPLICATION NUMBER: 60/078939	
20	PRIOR FILING DATE: 1998-03-20	
21	PRIOR APPLICATION NUMBER: 60/079294	
22	PRIOR FILING DATE: 1998-03-25	
23	PRIOR APPLICATION NUMBER: 60/079656	
24	PRIOR FILING DATE: 1998-03-26	
25	PRIOR APPLICATION NUMBER: 60/079664	
26	PRIOR FILING DATE: 1998-03-27	
27	PRIOR APPLICATION NUMBER: 60/079689	
28	PRIOR FILING DATE: 1998-03-27	
29	PRIOR APPLICATION NUMBER: 60/079663	
30	PRIOR FILING DATE: 1998-03-27	
31	PRIOR APPLICATION NUMBER: 60/079728	
32	PRIOR FILING DATE: 1998-03-27	
33	PRIOR APPLICATION NUMBER: 60/079786	
34	PRIOR FILING DATE: 1998-03-27	
35	PRIOR APPLICATION NUMBER: 60/079920	
36	PRIOR FILING DATE: 1998-03-30	
37	PRIOR APPLICATION NUMBER: 60/079923	
38	PRIOR FILING DATE: 1998-03-30	
39	PRIOR APPLICATION NUMBER: 60/080105	
40	PRIOR FILING DATE: 1998-03-31	
41	PRIOR APPLICATION NUMBER: 60/080107	
42	PRIOR FILING DATE: 1998-03-31	
43	PRIOR APPLICATION NUMBER: 60/080165	
44	PRIOR FILING DATE: 1998-03-31	
45	PRIOR APPLICATION NUMBER: 60/080194	
46	PRIOR FILING DATE: 1998-03-31	
47	PRIOR APPLICATION NUMBER: 60/080327	
48	PRIOR FILING DATE: 1998-04-01	
49	PRIOR APPLICATION NUMBER: 60/080328	
50	PRIOR FILING DATE: 1998-04-01	
51	PRIOR APPLICATION NUMBER: 60/080333	
52	PRIOR FILING DATE: 1998-04-01	
53	PRIOR APPLICATION NUMBER: 60/080334	
54	PRIOR FILING DATE: 1998-04-01	
55	PRIOR APPLICATION NUMBER: 60/081070	
56	PRIOR FILING DATE: 1998-04-08	
57	PRIOR APPLICATION NUMBER: 60/081049	
58	PRIOR FILING DATE: 1998-04-08	
59	PRIOR APPLICATION NUMBER: 60/081203	
60	PRIOR FILING DATE: 1998-04-09	
61	PRIOR APPLICATION NUMBER: 60/081071	
62	PRIOR FILING DATE: 1998-04-08	
63	PRIOR APPLICATION NUMBER: 60/081195	
64	PRIOR FILING DATE: 1998-04-08	
65	PRIOR APPLICATION NUMBER: 60/081203	
66	PRIOR FILING DATE: 1998-04-09	
67	PRIOR APPLICATION NUMBER: 60/081229	
68	PRIOR FILING DATE: 1998-04-09	
69	PRIOR APPLICATION NUMBER: 60/081955	
70	PRIOR FILING DATE: 1998-04-15	
71	PRIOR APPLICATION NUMBER: 60/081817	
72	PRIOR FILING DATE: 1998-04-15	
73	PRIOR APPLICATION NUMBER: 60/081819	
74	PRIOR FILING DATE: 1998-04-15	
75	PRIOR APPLICATION NUMBER: 60/081952	

1	PRIOR FILING DATE: 1998-04-15	
2	PRIOR APPLICATION NUMBER: 60/081838	
3	PRIOR FILING DATE: 1998-04-15	
4	PRIOR APPLICATION NUMBER: 60/082568	
5	PRIOR FILING DATE: 1998-04-21	
6	PRIOR APPLICATION NUMBER: 60/082569	
7	PRIOR FILING DATE: 1998-04-21	
8	PRIOR APPLICATION NUMBER: 60/082704	
9	PRIOR FILING DATE: 1998-04-22	
10	PRIOR APPLICATION NUMBER: 60/082804	
11	PRIOR FILING DATE: 1998-04-22	
12	PRIOR APPLICATION NUMBER: 60/082700	
13	PRIOR FILING DATE: 1998-04-22	
14	PRIOR APPLICATION NUMBER: 60/082797	
15	PRIOR FILING DATE: 1998-04-22	
16	PRIOR APPLICATION NUMBER: 60/082796	
17	PRIOR FILING DATE: 1998-04-23	
18	PRIOR APPLICATION NUMBER: 60/083336	
19	PRIOR FILING DATE: 1998-04-27	
20	PRIOR APPLICATION NUMBER: 60/083322	
21	PRIOR FILING DATE: 1998-04-28	
22	PRIOR APPLICATION NUMBER: 60/083392	
23	PRIOR FILING DATE: 1998-04-29	
24	PRIOR APPLICATION NUMBER: 60/083499	
25	PRIOR FILING DATE: 1998-04-29	
26	PRIOR APPLICATION NUMBER: 60/083545	
27	PRIOR FILING DATE: 1998-04-29	
28	PRIOR APPLICATION NUMBER: 60/083496	
29	PRIOR FILING DATE: 1998-04-29	
30	PRIOR APPLICATION NUMBER: 60/083554	
31	PRIOR FILING DATE: 1998-04-29	
32	PRIOR APPLICATION NUMBER: 60/083558	
33	PRIOR FILING DATE: 1998-04-29	
34	PRIOR APPLICATION NUMBER: 60/083559	
35	PRIOR FILING DATE: 1998-04-29	
36	PRIOR APPLICATION NUMBER: 60/083500	
37	PRIOR FILING DATE: 1998-04-29	
38	PRIOR APPLICATION NUMBER: 60/083742	
39	PRIOR FILING DATE: 1998-04-30	
40	PRIOR APPLICATION NUMBER: 60/084366	
41	PRIOR FILING DATE: 1998-05-05	
42	PRIOR APPLICATION NUMBER: 60/084414	
43	PRIOR FILING DATE: 1998-05-06	
44	PRIOR APPLICATION NUMBER: 60/084441	
45	PRIOR FILING DATE: 1998-05-06	
46	PRIOR APPLICATION NUMBER: 60/084637	
47	PRIOR FILING DATE: 1998-05-07	
48	PRIOR APPLICATION NUMBER: 60/084639	
49	PRIOR FILING DATE: 1998-05-07	
50	PRIOR APPLICATION NUMBER: 60/084640	
51	PRIOR FILING DATE: 1998-5-07	
52	PRIOR APPLICATION NUMBER: 60/084640	
53	PRIOR FILING DATE: 1998-05-07	
54	PRIOR APPLICATION NUMBER: 60/084598	
55	PRIOR FILING DATE: 1998-05-07	
56	PRIOR APPLICATION NUMBER: 60/085339	
57	PRIOR FILING DATE: 1998-08-13	
58	PRIOR APPLICATION NUMBER: 60/085338	
59	PRIOR FILING DATE: 1998-05-13	
60	PRIOR APPLICATION NUMBER: 60/085323	
61	PRIOR FILING DATE: 1998-05-13	
62	PRIOR APPLICATION NUMBER: 60/085582	
63	PRIOR FILING DATE: 1998-05-15	
64	PRIOR APPLICATION NUMBER: 60/085700	
65	PRIOR FILING DATE: 1998-05-15	
66	PRIOR APPLICATION NUMBER: 60/085689	
67	PRIOR FILING DATE: 1998-05-15	

Best Local Similarity 100.0%; Pred. No. 2.9e-78;  
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MAFTFAAFYLLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVPEYLIHA 60  
Db 1 MAFTFAAFYLLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVPEYLIHA 60  
Qy 61 FFCVMFLCAAEWLTGLNMPLLAYHIWRYMSRPVMSGPGLYDPTTMMNADILAYCOKEGW 120  
Db 61 FFCVMFLCAAEWLTGLNMPLLAYHIWRYMSRPVMSGPGLYDPTTMMNADILAYCOKEGW 120  
Qy 121 CKLAFYLLAFFYLYGMIVLVSS 144  
Db 121 CKLAFYLLAFFYLYGMIVLVSS 144

RESULT 10  
US-09-978-585A-322  
; Sequence 322, Application US/09978585A  
; Publication No. US20030049633A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Deenoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrata, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2630PIC15  
; CURRENT FILING DATE: 2001-10-16  
; NUMBER OF SEQ ID NOS: 624  
; Prior Application removed - See File Wrapper or Palm  
; SEQ ID NO 322  
; LENGTH: 144  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-978-585A-322

Query Match 100.0%; Score 784; DB 11; Length 144;  
Best Local Similarity 100.0%; Pred. No. 2.9e-78;  
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MAFTFAAFYLLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVPEYLIHA 60  
Db 1 MAFTFAAFYLLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVPEYLIHA 60  
Qy 61 FFCVMFLCAAEWLTGLNMPLLAYHIWRYMSRPVMSGPGLYDPTTMMNADILAYCOKEGW 120  
Db 61 FFCVMFLCAAEWLTGLNMPLLAYHIWRYMSRPVMSGPGLYDPTTMMNADILAYCOKEGW 120

Prior Application Number: 60/085579  
Prior Filing Date: 1998-05-15  
Prior Application Number: 60/085580  
Prior Filing Date: 1998-05-15  
Prior Application Number: 60/085573  
Prior Filing Date: 1998-05-15  
Prior Application Number: 60/085704  
Prior Filing Date: 1998-05-15  
Prior Application Number: 60/085697  
Query Match 100.0%; Score 784; DB 11; Length 144;  
Best Local Similarity 100.0%; Pred. No. 2.9e-78;  
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MAFTFAAFYLLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVPEYLIHA 60  
Db 1 MAFTFAAFYLLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVPEYLIHA 60  
Qy 61 FFCVMFLCAAEWLTGLNMPLLAYHIWRYMSRPVMSGPGLYDPTTMMNADILAYCOKEGW 120  
Db 61 FFCVMFLCAAEWLTGLNMPLLAYHIWRYMSRPVMSGPGLYDPTTMMNADILAYCOKEGW 120  
Qy 121 CKLAFYLLAFFYLYGMIVLVSS 144  
Db 121 CKLAFYLLAFFYLYGMIVLVSS 144

RESULT 9  
US-09-978-608A-322  
; Sequence 322, Application US/09978608A  
; Publication No. US20030045462A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Deenoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrata, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2630PIC22  
; CURRENT FILING DATE: 2001-10-16  
; NUMBER OF SEQ ID NOS: 624  
; Prior Application removed - See File Wrapper or Palm  
; SEQ ID NO 322  
; LENGTH: 144  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-978-608A-322

Query Match 100.0%; Score 784; DB 11; Length 144;

Oy 121 CKLAFFYLLAFFYLYGMIVLVSS 144  
 Db 121 CKLAFFYLLAFFYLYGMIVLVSS 144

## RESULT 11

US-09-978-191A-322  
 ; Sequence 322, Application US/09978191A  
 ; Publication No. US20030050239A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Baker Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan  
 ; APPLICANT: Ferrara, Napoleon  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Hillan, Kenneth J.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Kuo, Sophia S.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Shelton, David L.  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; FILE REFERENCE: P2630P1C4  
 ; CURRENT APPLICATION NUMBER: US/09/978,191A  
 ; CURRENT FILING DATE: 2001-10-15  
 ; PRIOR APPLICATION NUMBER: 09/918585  
 ; PRIOR FILING DATE: 2001-07-30  
 ; PRIOR APPLICATION NUMBER: 60/062250  
 ; PRIOR FILING DATE: 1997-10-17  
 ; PRIOR APPLICATION NUMBER: 60/064249  
 ; PRIOR FILING DATE: 1997-11-03  
 ; PRIOR APPLICATION NUMBER: 60/065311  
 ; PRIOR FILING DATE: 1997-11-13  
 ; PRIOR APPLICATION NUMBER: 60/066364  
 ; PRIOR FILING DATE: 1997-11-21  
 ; PRIOR APPLICATION NUMBER: 60/077450  
 ; PRIOR FILING DATE: 1998-03-10  
 ; PRIOR APPLICATION NUMBER: 60/077632  
 ; PRIOR FILING DATE: 1998-03-11  
 ; PRIOR APPLICATION NUMBER: 60/077641  
 ; PRIOR FILING DATE: 1998-03-11  
 ; PRIOR APPLICATION NUMBER: 60/077649  
 ; PRIOR FILING DATE: 1998-03-11  
 ; PRIOR APPLICATION NUMBER: 60/077791  
 ; PRIOR FILING DATE: 1998-03-12  
 ; PRIOR APPLICATION NUMBER: 60/078004  
 ; PRIOR FILING DATE: 1998-03-13  
 ; PRIOR APPLICATION NUMBER: 60/078886  
 ; PRIOR FILING DATE: 1998-03-20  
 ; PRIOR APPLICATION NUMBER: 60/078936  
 ; PRIOR FILING DATE: 1998-03-20  
 ; PRIOR APPLICATION NUMBER: 60/078910  
 ; PRIOR FILING DATE: 1998-03-20  
 ; PRIOR APPLICATION NUMBER: 60/078939  
 ; PRIOR FILING DATE: 1998-03-20  
 ; PRIOR APPLICATION NUMBER: 60/079294

; PRIOR FILING DATE: 1998-03-25  
 ; PRIOR APPLICATION NUMBER: 60/079656  
 ; PRIOR FILING DATE: 1998-03-26  
 ; PRIOR APPLICATION NUMBER: 60/079664  
 ; PRIOR FILING DATE: 1998-03-27  
 ; PRIOR APPLICATION NUMBER: 60/079689  
 ; PRIOR FILING DATE: 1998-03-27  
 ; PRIOR APPLICATION NUMBER: 60/079663  
 ; PRIOR FILING DATE: 1998-03-27  
 ; PRIOR APPLICATION NUMBER: 60/079728  
 ; PRIOR FILING DATE: 1998-03-27  
 ; PRIOR APPLICATION NUMBER: 60/079786  
 ; PRIOR FILING DATE: 1998-03-27  
 ; PRIOR APPLICATION NUMBER: 60/079920  
 ; PRIOR FILING DATE: 1998-03-30  
 ; PRIOR APPLICATION NUMBER: 60/079923  
 ; PRIOR FILING DATE: 1998-03-30  
 ; PRIOR APPLICATION NUMBER: 60/080105  
 ; PRIOR FILING DATE: 1998-03-31  
 ; PRIOR APPLICATION NUMBER: 60/080107  
 ; PRIOR FILING DATE: 1998-03-31  
 ; PRIOR APPLICATION NUMBER: 60/080165  
 ; PRIOR FILING DATE: 1998-03-31  
 ; PRIOR APPLICATION NUMBER: 60/080194  
 ; PRIOR FILING DATE: 1998-03-31  
 ; PRIOR APPLICATION NUMBER: 60/080327  
 ; PRIOR FILING DATE: 1998-04-01  
 ; PRIOR APPLICATION NUMBER: 60/080328  
 ; PRIOR FILING DATE: 1998-04-01  
 ; PRIOR APPLICATION NUMBER: 60/080333  
 ; PRIOR FILING DATE: 1998-04-01  
 ; PRIOR APPLICATION NUMBER: 60/080334  
 ; PRIOR FILING DATE: 1998-04-01  
 ; PRIOR APPLICATION NUMBER: 60/081070  
 ; PRIOR FILING DATE: 1998-04-08  
 ; PRIOR APPLICATION NUMBER: 60/081049  
 ; PRIOR FILING DATE: 1998-04-08  
 ; PRIOR APPLICATION NUMBER: 60/081071  
 ; PRIOR FILING DATE: 1998-04-08  
 ; PRIOR APPLICATION NUMBER: 60/081195  
 ; PRIOR FILING DATE: 1998-04-08  
 ; PRIOR APPLICATION NUMBER: 60/081203  
 ; PRIOR FILING DATE: 1998-04-09  
 ; PRIOR APPLICATION NUMBER: 60/081229  
 ; PRIOR FILING DATE: 1998-04-09  
 ; PRIOR APPLICATION NUMBER: 60/081955  
 ; PRIOR FILING DATE: 1998-04-15  
 ; PRIOR APPLICATION NUMBER: 60/081817  
 ; PRIOR FILING DATE: 1998-04-15  
 ; PRIOR APPLICATION NUMBER: 60/081819  
 ; PRIOR FILING DATE: 1998-04-15  
 ; PRIOR APPLICATION NUMBER: 60/081952  
 ; PRIOR FILING DATE: 1998-04-15  
 ; PRIOR APPLICATION NUMBER: 60/081838  
 ; PRIOR FILING DATE: 1998-04-15  
 ; PRIOR APPLICATION NUMBER: 60/082568  
 ; PRIOR FILING DATE: 1998-04-21  
 ; PRIOR APPLICATION NUMBER: 60/082569  
 ; PRIOR FILING DATE: 1998-04-21  
 ; PRIOR APPLICATION NUMBER: 60/082704  
 ; PRIOR FILING DATE: 1998-04-22  
 ; PRIOR APPLICATION NUMBER: 60/082804  
 ; PRIOR FILING DATE: 1998-04-22  
 ; PRIOR APPLICATION NUMBER: 60/082700  
 ; PRIOR FILING DATE: 1998-04-22  
 ; PRIOR APPLICATION NUMBER: 60/082797  
 ; PRIOR FILING DATE: 1998-04-22  
 ; PRIOR APPLICATION NUMBER: 60/082796  
 ; PRIOR FILING DATE: 1998-04-23  
 ; PRIOR APPLICATION NUMBER: 60/083336  
 ; PRIOR FILING DATE: 1998-04-27  
 ; PRIOR APPLICATION NUMBER: 60/083322  
 ; PRIOR FILING DATE: 1998-04-28

1 PRIOR APPLICATION NUMBER: 60/083392  
2 PRIOR FILING DATE: 1998-04-29  
3 PRIOR APPLICATION NUMBER: 60/083495  
4 PRIOR FILING DATE: 1998-04-29  
5 PRIOR APPLICATION NUMBER: 60/083496  
6 PRIOR FILING DATE: 1998-04-29  
7 PRIOR APPLICATION NUMBER: 60/083499  
8 PRIOR FILING DATE: 1998-04-29  
9 PRIOR APPLICATION NUMBER: 60/083545  
10 PRIOR FILING DATE: 1998-04-29  
11 PRIOR APPLICATION NUMBER: 60/083554  
12 PRIOR FILING DATE: 1998-04-29  
13 PRIOR APPLICATION NUMBER: 60/083558  
14 PRIOR FILING DATE: 1998-04-29  
15 PRIOR APPLICATION NUMBER: 60/083559  
16 PRIOR FILING DATE: 1998-04-29  
17 PRIOR APPLICATION NUMBER: 60/083500  
18 PRIOR FILING DATE: 1998-04-29  
19 PRIOR APPLICATION NUMBER: 60/083742  
20 PRIOR FILING DATE: 1998-04-30  
21 PRIOR APPLICATION NUMBER: 60/084366  
22 PRIOR FILING DATE: 1998-05-05  
23 PRIOR APPLICATION NUMBER: 60/084414  
24 PRIOR FILING DATE: 1998-05-06  
25 PRIOR APPLICATION NUMBER: 60/084441  
26 PRIOR FILING DATE: 1998-05-06  
27 PRIOR APPLICATION NUMBER: 60/084637  
28 PRIOR FILING DATE: 1998-05-07  
29 PRIOR APPLICATION NUMBER: 60/084639  
30 PRIOR FILING DATE: 1998-05-07  
31 PRIOR APPLICATION NUMBER: 60/084640  
32 PRIOR FILING DATE: 1998-05-07  
33 PRIOR APPLICATION NUMBER: 60/084598  
34 PRIOR FILING DATE: 1998-05-07  
35 PRIOR APPLICATION NUMBER: 60/084600  
36 PRIOR FILING DATE: 1998-05-07  
37 PRIOR APPLICATION NUMBER: 60/084627  
38 PRIOR FILING DATE: 1998-05-07  
39 PRIOR APPLICATION NUMBER: 60/084643  
40 PRIOR FILING DATE: 1998-05-07  
41 PRIOR APPLICATION NUMBER: 60/085339  
42 PRIOR FILING DATE: 1998-05-13  
43 PRIOR APPLICATION NUMBER: 60/085338  
44 PRIOR FILING DATE: 1998-05-13  
45 PRIOR APPLICATION NUMBER: 60/085323  
46 PRIOR FILING DATE: 1998-05-13  
47 PRIOR APPLICATION NUMBER: 60/085582  
48 PRIOR FILING DATE: 1998-05-15  
49 PRIOR APPLICATION NUMBER: 60/085700  
50 PRIOR FILING DATE: 1998-05-15  
51 PRIOR APPLICATION NUMBER: 60/085689  
52 PRIOR FILING DATE: 1998-05-15  
53 PRIOR APPLICATION NUMBER: 60/085579  
54 PRIOR FILING DATE: 1998-05-15  
55 PRIOR APPLICATION NUMBER: 60/085580  
56 PRIOR FILING DATE: 1998-05-15  
57 PRIOR APPLICATION NUMBER: 60/085573  
58 PRIOR FILING DATE: 1998-05-15  
59 PRIOR APPLICATION NUMBER: 60/085704  
60 PRIOR FILING DATE: 1998-05-15  
61 PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 784; DB 11; Length 144;  
Best Local Similarity 100.0%; Pred. No. 2.9e-78;  
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MAFTFAFCYMLALLTAALFFAIWHIIAFDELKTDYKPNIDQCNTLNPLVPEYLIIA 60  
Db 1 MAFTFAFCYMLALLTAALFFAIWHIIAFDELKTDYKPNIDQCNTLNPLVPEYLIIA 60  
Qy 61 FFCVMFLCAAEWLTGLNMPLLAYHIWYMSRPVMSGFGLYDPTTINADILAYCQKEG 120  
Db 61 FFCVMFLCAAEWLTGLNMPLLAYHIWYMSRPVMSGFGLYDPTTINADILAYCQKEG 120

Qy 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
Db 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
RESULT 12  
US-09-978-403A-322  
Sequence 322, Application US/09978403A  
Publication No. US20030050240A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Baker Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Deanoyers, Luc  
APPLICANT: Eaton, Dan  
APPLICANT: Ferrara, Napoleon  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2630P1C17  
CURRENT APPLICATION NUMBER: US/09/978,403A  
CURRENT FILING DATE: 2002-03-19  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/064249  
PRIOR FILING DATE: 1997-11-03  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066364  
PRIOR FILING DATE: 1997-11-21  
PRIOR APPLICATION NUMBER: 60/077450  
PRIOR FILING DATE: 1998-03-10  
PRIOR APPLICATION NUMBER: 60/077632  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077641  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077649  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077791  
PRIOR FILING DATE: 1998-03-12  
PRIOR APPLICATION NUMBER: 60/078004  
PRIOR FILING DATE: 1998-03-13  
PRIOR APPLICATION NUMBER: 60/078886  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078936  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078939  
PRIOR FILING DATE: 1998-03-20

; PRIOR APPLICATION NUMBER: 60/079294  
; PRIOR FILING DATE: 1998-03-25  
; PRIOR APPLICATION NUMBER: 60/079656  
; PRIOR FILING DATE: 1998-03-26  
; PRIOR APPLICATION NUMBER: 60/079664  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079689  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079663  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079728  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079786  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079920  
; PRIOR FILING DATE: 1998-03-30  
; PRIOR APPLICATION NUMBER: 60/079923  
; PRIOR FILING DATE: 1998-03-30  
; PRIOR APPLICATION NUMBER: 60/080105  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080107  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080165  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080194  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080327  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/080328  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/080333  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/080334  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/081070  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/081049  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/081071  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/081195  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/081203  
; PRIOR FILING DATE: 1998-04-09  
; PRIOR APPLICATION NUMBER: 60/081229  
; PRIOR FILING DATE: 1998-04-09  
; PRIOR APPLICATION NUMBER: 60/081955  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/081817  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/081819  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/081952  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/081838  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/082568  
; PRIOR FILING DATE: 1998-04-21  
; PRIOR APPLICATION NUMBER: 60/082569  
; PRIOR FILING DATE: 1998-04-21  
; PRIOR APPLICATION NUMBER: 60/082704  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: 60/082804  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: 60/082700  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: 60/082797  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: 60/082796  
; PRIOR FILING DATE: 1998-04-23  
; PRIOR APPLICATION NUMBER: 60/083336  
; PRIOR FILING DATE: 1998-04-27  
; PRIOR APPLICATION NUMBER: 60/083322

; PRIOR FILING DATE: 1998-04-28  
; PRIOR APPLICATION NUMBER: 60/083392  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR APPLICATION NUMBER: 60/083495  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR APPLICATION NUMBER: 60/083496  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR APPLICATION NUMBER: 60/083499  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR APPLICATION NUMBER: 60/083545  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR APPLICATION NUMBER: 60/083554  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR APPLICATION NUMBER: 60/083558  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR APPLICATION NUMBER: 60/083559  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR APPLICATION NUMBER: 60/083500  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR APPLICATION NUMBER: 60/083742  
; PRIOR FILING DATE: 1998-04-30  
; PRIOR APPLICATION NUMBER: 60/084366  
; PRIOR FILING DATE: 1998-05-05  
; PRIOR APPLICATION NUMBER: 60/084414  
; PRIOR FILING DATE: 1998-05-06  
; PRIOR APPLICATION NUMBER: 60/084441  
; PRIOR FILING DATE: 1998-05-06  
; PRIOR APPLICATION NUMBER: 60/084637  
; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/084639  
; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/084640  
; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/084598  
; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/084600  
; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/084627  
; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/084643  
; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/085339  
; PRIOR FILING DATE: 1998-05-13  
; PRIOR APPLICATION NUMBER: 60/085338  
; PRIOR FILING DATE: 1998-05-13  
; PRIOR APPLICATION NUMBER: 60/085323  
; PRIOR FILING DATE: 1998-05-13  
; PRIOR APPLICATION NUMBER: 60/085582  
; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/085700  
; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/085689  
; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/085579  
; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/085580  
; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/085573  
; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/085704  
; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 784; DB 11; Length 144;

Best Local Similarity 100.0%; Pred. No. 2.9e-78; Mismatches 0; Indels 0; Gaps 0;  
Matches 144; Conservative 0;

Qy 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLYLIHA 60  
|||||

Db 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLYLIHA 60  
|||||

Qy 61 FFCVNFCAAEWLTGLNMLLAYHIWRYSRPVMSGFGLYDPTTINADILAYCQKEGW 120  
|||||

Db 61 FFCWFLCAAETLGLNPLLAYHWRVMSRPMVSGPLGYDPTTMINADILAYCQKEGW 120  
QY 121 CKLAFVLLAFFYLYGMIVLVSS 144  
Db 121 CKLAFVLLAFFYLYGMIVLVSS 144  
RESULT 13  
US-09-978-564A-322  
; Sequence 322, Application US/09978564A  
; Publication No. US2003050241A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2630P1C25  
; CURRENT APPLICATION NUMBER: US/09/978,564A  
; CURRENT FILING DATE: 2001-10-16  
; PRIOR APPLICATION NUMBER: 09/918595  
; PRIOR FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/064249  
; PRIOR FILING DATE: 1997-11-03  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066364  
; PRIOR FILING DATE: 1997-11-21  
; PRIOR APPLICATION NUMBER: 60/077450  
; PRIOR FILING DATE: 1998-03-10  
; PRIOR APPLICATION NUMBER: 60/077632  
; PRIOR FILING DATE: 1998-03-11  
; PRIOR APPLICATION NUMBER: 60/077641  
; PRIOR FILING DATE: 1998-03-11  
; PRIOR APPLICATION NUMBER: 60/077649  
; PRIOR FILING DATE: 1998-03-11  
; PRIOR APPLICATION NUMBER: 60/077791  
; PRIOR FILING DATE: 1998-03-12  
; PRIOR APPLICATION NUMBER: 60/078004  
; PRIOR FILING DATE: 1998-03-13  
; PRIOR APPLICATION NUMBER: 60/078886  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/078936  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/078910  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/078939  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/079294  
; PRIOR FILING DATE: 1998-03-25  
; PRIOR APPLICATION NUMBER: 60/079656  
; PRIOR FILING DATE: 1998-03-26  
; PRIOR APPLICATION NUMBER: 60/079664  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079689  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079663  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079728  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079786  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079920  
; PRIOR FILING DATE: 1998-03-30  
; PRIOR APPLICATION NUMBER: 60/079923  
; PRIOR FILING DATE: 1998-03-30  
; PRIOR APPLICATION NUMBER: 60/080105  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080107  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080165  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080194  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080327  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/080328  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/080333  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/080334  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/081070  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/081049  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/081071  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/081195  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/081203  
; PRIOR FILING DATE: 1998-04-09  
; PRIOR APPLICATION NUMBER: 60/081229  
; PRIOR FILING DATE: 1998-04-09  
; PRIOR APPLICATION NUMBER: 60/081955  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/081817  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/081819  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/081952  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/081838  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/082568  
; PRIOR FILING DATE: 1998-04-21  
; PRIOR APPLICATION NUMBER: 60/082569  
; PRIOR FILING DATE: 1998-04-21  
; PRIOR APPLICATION NUMBER: 60/082704  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: 60/082804  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: 60/082700  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: 60/082797  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: 60/082796  
; PRIOR FILING DATE: 1998-04-23  
; PRIOR APPLICATION NUMBER: 60/083336  
; PRIOR FILING DATE: 1998-04-27

```

; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/083392
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083495
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083496
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083499
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083545
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083554
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083558
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083559
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083500
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083742
; PRIOR FILING DATE: 1998-04-30
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084441
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084637
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084598
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084627
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085339
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085338
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15

Query Match          100.08; Score 784; DB 11; Length 144;
Best Local Similarity 100.08; Pred. No. 2.9e-78;
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAFTFAAFYMLALLTLAALFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLPYLIHA 60
    |||||||
Db 1 MAFTFAAFYMLALLTLAALFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLPYLIHA 60
    |||||||
QY 61 FFCVNFCAEWLTLGLNPLLAYHIWYMRPVMSPGLYDPTTINMADILAYCQKEGW 120
    |||||||
```

```

Db 61 FFCVNFCAEWLTLGLNPLLAYHIWYMRPVMSPGLYDPTTINMADILAYCQKEGW 120
    |||||||
QY 121 CKLAFYLLAFFYLYGMIYVLVSS 144
    |||||||
Db 121 CKLAFYLLAFFYLYGMIYVLVSS 144
    |||||||

RESULT 14
US-09-999-833A-322
; Sequence 322, Application US/09999833A
; Publication No. US20030054405A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann.
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC85
; CURRENT APPLICATION NUMBER: US/09/999,833A
; CURRENT FILING DATE: 2001-10-24
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077791
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: 60/078004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078936
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
```

;; PRIOR APPLICATION NUMBER: 60/078939  
;; PRIOR FILING DATE: 1998-03-20  
;; PRIOR APPLICATION NUMBER: 60/079294  
;; PRIOR FILING DATE: 1998-03-25  
;; PRIOR APPLICATION NUMBER: 60/079656  
;; PRIOR FILING DATE: 1998-03-26  
;; PRIOR APPLICATION NUMBER: 60/079664  
;; PRIOR FILING DATE: 1998-03-27  
;; PRIOR APPLICATION NUMBER: 60/079689  
;; PRIOR FILING DATE: 1998-03-27  
;; PRIOR APPLICATION NUMBER: 60/079663  
;; PRIOR FILING DATE: 1998-03-27  
;; PRIOR APPLICATION NUMBER: 60/079728  
;; PRIOR FILING DATE: 1998-03-27  
;; PRIOR APPLICATION NUMBER: 60/079786  
;; PRIOR FILING DATE: 1998-03-27  
;; PRIOR APPLICATION NUMBER: 60/079920  
;; PRIOR FILING DATE: 1998-03-30  
;; PRIOR APPLICATION NUMBER: 60/079923  
;; PRIOR FILING DATE: 1998-03-30  
;; PRIOR APPLICATION NUMBER: 60/080105  
;; PRIOR FILING DATE: 1998-03-31  
;; PRIOR APPLICATION NUMBER: 60/080107  
;; PRIOR FILING DATE: 1998-03-31  
;; PRIOR APPLICATION NUMBER: 60/080165  
;; PRIOR FILING DATE: 1998-03-31  
;; PRIOR APPLICATION NUMBER: 60/080194  
;; PRIOR FILING DATE: 1998-03-31  
;; PRIOR APPLICATION NUMBER: 60/080327  
;; PRIOR FILING DATE: 1998-04-01  
;; PRIOR APPLICATION NUMBER: 60/080328  
;; PRIOR FILING DATE: 1998-04-01  
;; PRIOR APPLICATION NUMBER: 60/080333  
;; PRIOR FILING DATE: 1998-04-01  
;; PRIOR APPLICATION NUMBER: 60/080334  
;; PRIOR FILING DATE: 1998-04-01  
;; PRIOR APPLICATION NUMBER: 60/081070  
;; PRIOR FILING DATE: 1998-04-08  
;; PRIOR APPLICATION NUMBER: 60/081049  
;; PRIOR FILING DATE: 1998-04-08  
;; PRIOR APPLICATION NUMBER: 60/081071  
;; PRIOR FILING DATE: 1998-04-08  
;; PRIOR APPLICATION NUMBER: 60/081195  
;; PRIOR FILING DATE: 1998-04-08  
;; PRIOR APPLICATION NUMBER: 60/081203  
;; PRIOR FILING DATE: 1998-04-09  
;; PRIOR APPLICATION NUMBER: 60/081229  
;; PRIOR FILING DATE: 1998-04-09  
;; PRIOR APPLICATION NUMBER: 60/081955  
;; PRIOR FILING DATE: 1998-04-15  
;; PRIOR APPLICATION NUMBER: 60/081817  
;; PRIOR FILING DATE: 1998-04-15  
;; PRIOR APPLICATION NUMBER: 60/081819  
;; PRIOR FILING DATE: 1998-04-15  
;; PRIOR APPLICATION NUMBER: 60/081952  
;; PRIOR FILING DATE: 1998-04-15  
;; PRIOR APPLICATION NUMBER: 60/081838  
;; PRIOR FILING DATE: 1998-04-15  
;; PRIOR APPLICATION NUMBER: 60/082568  
;; PRIOR FILING DATE: 1998-04-21  
;; PRIOR APPLICATION NUMBER: 60/082569  
;; PRIOR FILING DATE: 1998-04-21  
;; PRIOR APPLICATION NUMBER: 60/082704  
;; PRIOR FILING DATE: 1998-04-22  
;; PRIOR APPLICATION NUMBER: 60/082804  
;; PRIOR FILING DATE: 1998-04-22  
;; PRIOR APPLICATION NUMBER: 60/082700  
;; PRIOR FILING DATE: 1998-04-22  
;; PRIOR APPLICATION NUMBER: 60/082797  
;; PRIOR FILING DATE: 1998-04-22  
;; PRIOR APPLICATION NUMBER: 60/082796  
;; PRIOR FILING DATE: 1998-04-23  
;; PRIOR APPLICATION NUMBER: 60/083336

;; PRIOR FILING DATE: 1998-04-27  
;; PRIOR APPLICATION NUMBER: 60/083322  
;; PRIOR FILING DATE: 1998-04-28  
;; PRIOR APPLICATION NUMBER: 60/083392  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: 60/083495  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: 60/083496  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: 60/083499  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: 60/083545  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: 60/083554  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: 60/083558  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: 60/083559  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: 60/083500  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: 60/083742  
;; PRIOR FILING DATE: 1998-04-30  
;; PRIOR APPLICATION NUMBER: 60/084366  
;; PRIOR FILING DATE: 1998-05-05  
;; PRIOR APPLICATION NUMBER: 60/084414  
;; PRIOR FILING DATE: 1998-05-06  
;; PRIOR APPLICATION NUMBER: 60/084441  
;; PRIOR FILING DATE: 1998-05-06  
;; PRIOR APPLICATION NUMBER: 60/084637  
;; PRIOR FILING DATE: 1998-05-07  
;; PRIOR APPLICATION NUMBER: 60/084639  
;; PRIOR FILING DATE: 1998-05-07  
;; PRIOR APPLICATION NUMBER: 60/084640  
;; PRIOR FILING DATE: 1998-05-07  
;; PRIOR APPLICATION NUMBER: 60/084598  
;; PRIOR FILING DATE: 1998-05-07  
;; PRIOR APPLICATION NUMBER: 60/084600  
;; PRIOR FILING DATE: 1998-05-07  
;; PRIOR APPLICATION NUMBER: 60/084627  
;; PRIOR FILING DATE: 1998-05-07  
;; PRIOR APPLICATION NUMBER: 60/084643  
;; PRIOR FILING DATE: 1998-05-07  
;; PRIOR APPLICATION NUMBER: 60/085339  
;; PRIOR FILING DATE: 1998-05-13  
;; PRIOR APPLICATION NUMBER: 60/085338  
;; PRIOR FILING DATE: 1998-05-13  
;; PRIOR APPLICATION NUMBER: 60/085323  
;; PRIOR FILING DATE: 1998-05-13  
;; PRIOR APPLICATION NUMBER: 60/085582  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085700  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085689  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085579  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085580  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085573  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085704  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 784; DB 11; Length 144;

Best Local Similarity 100.0%; Pred No. 2,9e-78;

Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAFTFAAFCYMLALLTLTAALIFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLPYLIHA 60

Db 1 MAFTFAAFCYMLALLTLTAALIFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLPYLIHA 60



Oy 61 FFCVNFCAAEWLTGLNMPLLAYHWMYMRPVMGPGLYDPTTMMNADILAYCOKEGW 120  
Db 61 FFCVNFCAAEWLTGLNMPLLAYHWMYMRPVMGPGLYDPTTMMNADILAYCOKEGW 120  
Oy 121 CKLAFYLLAFYYLYGMIVLVSS 144  
Db 121 CKLAFYLLAFYYLYGMIVLVSS 144

## RESULT 15

US-09-981-915A-322  
; Sequence 322, Application US/09981915A  
; Publication No. US20030054986A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James;  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2630FIC12  
; CURRENT APPLICATION NUMBER: US/09/981,915A  
; CURRENT FILING DATE: 2001-10-16  
; PRIOR APPLICATION NUMBER: 09/918585  
; PRIOR FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/064249  
; PRIOR FILING DATE: 1997-11-03  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066364  
; PRIOR FILING DATE: 1997-11-21  
; PRIOR APPLICATION NUMBER: 60/077450  
; PRIOR FILING DATE: 1998-03-10  
; PRIOR APPLICATION NUMBER: 60/077632  
; PRIOR FILING DATE: 1998-03-11  
; PRIOR APPLICATION NUMBER: 60/077641  
; PRIOR FILING DATE: 1998-03-11  
; PRIOR APPLICATION NUMBER: 60/077649  
; PRIOR FILING DATE: 1998-03-11  
; PRIOR APPLICATION NUMBER: 60/077791  
; PRIOR FILING DATE: 1998-03-12  
; PRIOR APPLICATION NUMBER: 60/078004  
; PRIOR FILING DATE: 1998-03-13  
; PRIOR APPLICATION NUMBER: 60/078886  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/078936  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/078910

; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/078939  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/079294  
; PRIOR FILING DATE: 1998-03-25  
; PRIOR APPLICATION NUMBER: 60/079656  
; PRIOR FILING DATE: 1998-03-26  
; PRIOR APPLICATION NUMBER: 60/079664  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079689  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079663  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079728  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079786  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079920  
; PRIOR FILING DATE: 1998-03-30  
; PRIOR APPLICATION NUMBER: 60/079923  
; PRIOR FILING DATE: 1998-03-30  
; PRIOR APPLICATION NUMBER: 60/080105  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080107  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080165  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080194  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080327  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/080328  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/080333  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/080334  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/081070  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/081049  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/081071  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/081195  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/081203  
; PRIOR FILING DATE: 1998-04-09  
; PRIOR APPLICATION NUMBER: 60/081229  
; PRIOR FILING DATE: 1998-04-09  
; PRIOR APPLICATION NUMBER: 60/081955  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/081817  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/081819  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/081952  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/081838  
; PRIOR FILING DATE: 1998-04-15  
; PRIOR APPLICATION NUMBER: 60/082568  
; PRIOR FILING DATE: 1998-04-21  
; PRIOR APPLICATION NUMBER: 60/082569  
; PRIOR FILING DATE: 1998-04-21  
; PRIOR APPLICATION NUMBER: 60/082704  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: 60/082804  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: 60/082700  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: 60/082797  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: 60/082796  
; PRIOR FILING DATE: 1998-04-23

1 PRIOR APPLICATION NUMBER: 60/083336  
2 PRIOR FILING DATE: 1998-04-27  
3 PRIOR APPLICATION NUMBER: 60/083322  
4 PRIOR FILING DATE: 1998-04-28  
5 PRIOR APPLICATION NUMBER: 60/083392  
6 PRIOR FILING DATE: 1998-04-29  
7 PRIOR APPLICATION NUMBER: 60/083495  
8 PRIOR FILING DATE: 1998-04-29  
9 PRIOR APPLICATION NUMBER: 60/083496  
10 PRIOR FILING DATE: 1998-04-29  
11 PRIOR APPLICATION NUMBER: 60/083499  
12 PRIOR FILING DATE: 1998-04-29  
13 PRIOR APPLICATION NUMBER: 60/083545  
14 PRIOR FILING DATE: 1998-04-29  
15 PRIOR APPLICATION NUMBER: 60/083554  
16 PRIOR FILING DATE: 1998-04-29  
17 PRIOR APPLICATION NUMBER: 60/083558  
18 PRIOR FILING DATE: 1998-04-29  
19 PRIOR APPLICATION NUMBER: 60/083559  
20 PRIOR FILING DATE: 1998-04-29  
21 PRIOR APPLICATION NUMBER: 60/083500  
22 PRIOR FILING DATE: 1998-04-29  
23 PRIOR APPLICATION NUMBER: 60/083742  
24 PRIOR FILING DATE: 1998-04-30  
25 PRIOR APPLICATION NUMBER: 60/084366  
26 PRIOR FILING DATE: 1998-05-05  
27 PRIOR APPLICATION NUMBER: 60/084414  
28 PRIOR FILING DATE: 1998-05-06  
29 PRIOR APPLICATION NUMBER: 60/084441  
30 PRIOR FILING DATE: 1998-05-06  
31 PRIOR APPLICATION NUMBER: 60/084637  
32 PRIOR FILING DATE: 1998-05-07  
33 PRIOR APPLICATION NUMBER: 60/084639  
34 PRIOR FILING DATE: 1998-05-07  
35 PRIOR APPLICATION NUMBER: 60/084640  
36 PRIOR FILING DATE: 1998-05-07  
37 PRIOR APPLICATION NUMBER: 60/084598  
38 PRIOR FILING DATE: 1998-05-07  
39 PRIOR APPLICATION NUMBER: 60/084600  
40 PRIOR FILING DATE: 1998-05-07  
41 PRIOR APPLICATION NUMBER: 60/084627  
42 PRIOR FILING DATE: 1998-05-07  
43 PRIOR APPLICATION NUMBER: 60/084643  
44 PRIOR FILING DATE: 1998-05-07  
45 PRIOR APPLICATION NUMBER: 60/085339  
46 PRIOR FILING DATE: 1998-05-13  
47 PRIOR APPLICATION NUMBER: 60/085338  
48 PRIOR FILING DATE: 1998-05-13  
49 PRIOR APPLICATION NUMBER: 60/085323  
50 PRIOR FILING DATE: 1998-05-13  
51 PRIOR APPLICATION NUMBER: 60/085582  
52 PRIOR FILING DATE: 1998-05-15  
53 PRIOR APPLICATION NUMBER: 60/085700  
54 PRIOR FILING DATE: 1998-05-15  
55 PRIOR APPLICATION NUMBER: 60/085689  
56 PRIOR FILING DATE: 1998-05-15  
57 PRIOR APPLICATION NUMBER: 60/085579  
58 PRIOR FILING DATE: 1998-05-15  
59 PRIOR APPLICATION NUMBER: 60/085580  
60 PRIOR FILING DATE: 1998-05-15  
61 PRIOR APPLICATION NUMBER: 60/085573  
62 PRIOR FILING DATE: 1998-05-15  
63 PRIOR APPLICATION NUMBER: 60/085704  
64 PRIOR FILING DATE: 1998-05-15  
65 PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 784; DB 11; Length 144;  
Best Local Similarity 100.0%; Pred. No. 2.9e-78;  
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MAFFAFCYMLALLTALIFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLPYLIHA 60  
Db 1 MAFFAFCYMLALLTALIFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLPYLIHA 60

Qy 61 FFCVMFLCAAEWLTGLNMPLLAYHIWYMSRPVMSGPGLYDPTTIMNADILAYCQKGM 120  
Db 61 FFCVMFLCAAEWLTGLNMPLLAYHIWYMSRPVMSGPGLYDPTTIMNADILAYCQKGM 120  
Qy 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
Db 121 CKLAFYLLAFFYLYGMIYVLVSS 144

Search completed: September 11, 2003, 14:51:37  
Job time : 68 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 11, 2003, 14:26:30 ; Search time 86 Seconds  
(without alignments)  
265.775 Million cell updates/sec

Title: US-09-918-585a-322

Perfect score: 784

Sequence: 1 MATFAFCVWLALLTAAL.....FYLLAFYYLYGMYIVLVSS 144

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A Geneseq 19Jun03.\*  
1: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1980.DAT.\*  
2: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1981.DAT.\*  
3: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1982.DAT.\*  
4: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1983.DAT.\*  
5: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1984.DAT.\*  
6: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1985.DAT.\*  
7: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1986.DAT.\*  
8: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1987.DAT.\*  
9: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1988.DAT.\*  
10: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1989.DAT.\*  
11: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1990.DAT.\*  
12: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1991.DAT.\*  
13: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1992.DAT.\*  
14: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1993.DAT.\*  
15: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1994.DAT.\*  
16: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1995.DAT.\*  
17: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1996.DAT.\*  
18: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1997.DAT.\*  
19: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1998.DAT.\*  
20: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1999.DAT.\*  
21: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA2000.DAT.\*  
22: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA2001.DAT.\*  
23: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA2002.DAT.\*  
24: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA2003.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	784	100.0	144	20	pk65_4 secreted protein
2	784	100.0	144	20	Human cornichon pr
3	784	100.0	144	20	Human PRO181 prote
4	784	100.0	144	20	Transmembrane doma
5	784	100.0	144	21	Human PRO181 (UNQ1
6	784	100.0	144	21	Antitumour PRO181
7	784	100.0	144	22	Human polypeptide,
8	784	100.0	144	22	Human lung tumour
9	784	100.0	144	23	Human cornichon pr

10	784	100.0	144	23	ABB95423	Human angiogenesis
11	784	100.0	144	23	AAE20143	Human cornichon pr
12	784	100.0	144	23	AAU85506	Clone #19110 of lu
13	784	100.0	144	23	ABB84817	Human PRO181 prote
14	784	100.0	144	23	AAU83651	Human PRO protein,
15	784	100.0	144	24	ABU69478	Human lung cancer
16	784	100.0	144	24	ABU66380	Lung cancer therap
17	784	100.0	144	24	ABU61118	Human PRO181 polyp
18	784	100.0	144	24	ABU07410	Protein differenti
19	784	100.0	145	20	AAV04316	Human secreted pro
20	775	98.9	142	21	AAV53622	A bone marrow secr
21	586	74.7	160	22	AA960464	Human cell cycle a
22	581	74.1	160	22	AA889196	Human secreted pro
23	573	73.3	160	23	ABB97539	Novel human protei
24	575	73.1	161	21	AAV76218	Human secreted pro
25	548	69.9	144	22	ABB61865	Drosophila melanog
26	548	69.9	144	22	ABB61866	Drosophila melanog
27	381	48.6	104	22	AAW41565	Human polypeptide
28	321	40.9	80	22	AAW39779	Human polypeptide
29	244.5	31.2	139	21	AAV91543	Human secreted pro
30	244.5	31.2	139	21	AAV78803	Hydrophobic domain
31	244.5	31.2	139	22	AAW79013	Human protein SEQ
32	244.5	31.2	139	22	AAW89173	Human secreted pro
33	244.5	31.2	139	23	ABW89737	Human polypeptide
34	244.5	31.2	139	24	ABR47720	Human secreted pro
35	244.5	31.2	149	22	ABB12002	Human secreted pro
36	244.5	31.2	149	22	AAW79997	Human protein SEQ
37	244.5	31.2	155	21	AAV91689	Human secreted pro
38	244.5	31.2	160	22	AAW25811	Human protein sequ
39	230	29.3	45	20	AAV11505	Human 5' EST secre
40	196	25.0	35	20	AAV04330	Fragment of human
41	186.5	23.8	157	22	ABB70572	Drosophila melanog
42	175.5	22.4	137	21	AAG16801	Arabidopsis thalia
43	173	22.1	30	20	AAV04329	Fragment of human
44	167	21.3	30	20	AAV04328	Fragment of human
45	164.5	21.0	146	21	AAG15261	Arabidopsis thalia

#### ALIGNMENTS

RESULT 1  
AAV28813  
ID AAV28813 standard; Protein; 144 AA.  
XX AAV28813;  
XX AC  
XX DT 17-JAN-2000 (first entry)  
XX DE pk65\_4 secreted protein.  
XX KW clone pk65\_4; pk65\_4 protein; human foetal kidney cDNA library;  
KW secreted protein; Transmembrane domain; cytokine; tissue growth;  
KW TopPred II; computer program; COS cell expression system;  
KW membrane fraction; SDS polyacrylamide gel electrophoresis;  
KW nutritional activity; cell proliferation; immune stimulation;  
KW immune suppression; hematopoiesis regulation; tumour inhibition.  
XX OS Homo sapiens.  
XX PN W09950405-A1.  
XX XX  
XX PD 07-OCT-1999.  
XX PF 30-MAR-1999; 99WO-US06946.  
XX PR 31-MAR-1998; 98US-0080110.  
XX PR 29-MAR-1999; 99US-0280591.  
XX PA (GEMV ) GENETICS INST INC.  
XX PI Jacobs K, McCoy JM, LaVallie ER, Collins-Racie LA, Evans C;  
PI Merberg D, Treacy M, Agostino MJ, Steininger RJ;

XX WPI: 1999-610849/52.  
 DR N-PSDB; AAX90853.  
 XX Polynucleotides encoding secreted human proteins, derived from human  
 PT adult brain, human fetal brain, human fetal kidney, and human adult  
 PT blood cDNA libraries -  
 XX  
 XX Claim 20; Page 105; 122pp; English.  
 XX  
 CC The present sequence is the pk65\_4 secreted protein encoded by the cDNA  
 CC clone pk65\_4. pk65\_4 was isolated from a human foetal kidney cDNA  
 CC library using methods specific for secreted protein cDNAs. The TopPred II  
 CC computer program predicts three potential transmembrane domains within  
 CC the protein sequence, centered around amino acids 16, 67, and 133.  
 CC pk65\_4 protein was expressed in a COS cell expression system, and an  
 CC expressed band of approximately 15kDa was detected in membrane fractions  
 CC using SDS polyacrylamide gel electrophoresis. The polynucleotide and  
 CC protein may effect nutritional activity, cytokine and cell proliferation,  
 CC immune stimulation or suppression, hematopoiesis regulation, tissue  
 CC growth, tumour inhibition etc.  
 XX  
 SQ Sequence 144 AA;  
 Query Match 100.0%; Score 784; DB 20; Length 144;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
 Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQNTLNPLVPEYLIIHA 60  
 DB 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQNTLNPLVPEYLIIHA 60  
 QY 61 FFCVMFLCAAEWLTGLNMPLLAYHIWYMSRPVMSGPGLYDPTTMMADILAYCQKEGW 120  
 DB 61 FFCVMFLCAAEWLTGLNMPLLAYHIWYMSRPVMSGPGLYDPTTMMADILAYCQKEGW 120  
 QY 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
 DB 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
 RESULT 2  
 AAY41306  
 ID AAY41306 standard; Protein; 144 AA.  
 XX AC AAY41306;  
 XX 18-JAN-2000 (first entry)  
 XX Human cornichon protein.  
 XX Human; cornichon; differentiation; body plan; metazoan; oogenesis;  
 KW embryogenesis; dorsalization; oocyte; dorsal-ventral axis; bicoid;  
 KW anterior-posterior axis; microtubule; cytoskeleton; oskar; diagnosis;  
 KW developmental disorder; hereditary neuropathy; seizure disorder;  
 KW reproductive disorder; immunological disorder; neoplastic disorder;  
 KW cancer; infection; spina bifida; cataract.  
 XX  
 OS Homo sapiens.  
 XX US5968744-A.  
 PN 19-OCT-1999.  
 PD 14-OCT-1997; 97US-0950168.  
 PF 14-OCT-1997; 97US-0950168.  
 XX (INCY-) INCYTE PHARM INC.  
 XX Hillman JL, Shah P, Corley NC;  
 PI WPI: 1999-590398/50.  
 XX

DR N-PSDB; AAZ30544.  
 XX Isolated nucleic acids encoding human cornichon molecules, useful in  
 PT the recombinant production of cornichon proteins and in the prevention,  
 PT diagnosis and treatment of developmental, reproductive, immunological  
 XX and neoplastic disorders -  
 XX Claim 1; Fig 1; 28pp; English.  
 XX  
 CC This sequence represents the human cornichon (CORN) protein (I). CORN  
 CC is involved in the differentiation and determination of body plan in  
 CC metazoans during oogenesis and embryogenesis. It is involved in  
 CC controlling the correct dorsalization of the oocyte (i.e. determining  
 CC the dorsal-ventral axis) and is essential in the correct induction of  
 CC the anterior-posterior axis. In this case, CORN is implicated in the  
 CC formation of correctly polarized microtubule cytoskeletons, which are  
 CC required for proper localization of the anterior and posterior  
 CC determinant genes (bicoid and oskar) and for the asymmetric positioning  
 CC of the oocyte nucleus (see Roth et al., Cell (1995)).  
 CC (I) may be used for the diagnosis, prevention and treatment of  
 CC disorders associated with inappropriate expression and/or activity of  
 CC CORN proteins. These disorders include developmental disorders (e.g.  
 CC anemia, Cushing's syndrome, epilepsy and achondroplastic dwarfism),  
 CC hereditary neuropathies (e.g. Charcot-Marie-Tooth disease), seizure  
 CC disorders (e.g. Sydenham's chorea and cerebral palsy), reproductive  
 CC disorders (e.g. infertility, disorders of prolactin production, tumors  
 CC and disruptions of the menstrual cycle), immunological disorders (e.g.  
 CC acquired immune deficiency syndrome (AIDS), Addison's disease and  
 CC asthma), neoplastic disorders (e.g. adenocarcinoma, leukemia, cancers  
 CC of the breast, lung, testis, ovaries and prostate and melanoma),  
 CC complications of cancers, bacterial, viral, parasitic, protozoal,  
 CC helminthic and fungal infections and other disorders such as spina  
 CC bifida and cataracts.  
 XX  
 SQ Sequence 144 AA;  
 Query Match 100.0%; Score 784; DB 20; Length 144;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
 Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQNTLNPLVPEYLIIHA 60  
 DB 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQNTLNPLVPEYLIIHA 60  
 QY 61 FFCVMFLCAAEWLTGLNMPLLAYHIWYMSRPVMSGPGLYDPTTMMADILAYCQKEGW 120  
 DB 61 FFCVMFLCAAEWLTGLNMPLLAYHIWYMSRPVMSGPGLYDPTTMMADILAYCQKEGW 120  
 QY 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
 DB 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
 RESULT 3  
 AAY41732  
 ID AAY41732 standard; Protein; 144 AA.  
 XX AC AAY41732;  
 XX 07-DEC-1999 (first entry)  
 XX Human PRO181 protein sequence.  
 XX Human; PRO; EST; expressed sequence tag; PCR primer; hybridisation;  
 KW probe; blood coagulation disorder; cancer; cellular adhesion disorder;  
 KW secreted protein; transmembrane protein.  
 XX  
 OS Homo sapiens.  
 XX WO9946281-A2.  
 PN 16-SEP-1999.  
 XX



KW interaction assay; diagnosis; nutritional activity; cytokine;  
 KW cell proliferation; cell differentiation activity; immune stimulant;  
 KW immune suppressant; haematopoiesis regulator; tissue growth activity;  
 KW activin; inhibin activity; chemotaxis; chemokinesis; haemostasis;  
 KW thrombolysis; anti-inflammatory; cadherin; tumour invasion suppressor;  
 KW tumour inhibitor.

XX Homo sapiens.  
 OS  
 XX  
 XX WO9943802-A2.  
 PN  
 XX  
 XX PD 02-SEP-1999.  
 XX  
 XX PF 25-FEB-1999; 99WO-JP00875.  
 XX  
 XX PR 27-FEB-1998; 98JP-0046607.  
 XX  
 XX PA (PROT-) PROTEGENE INC.  
 XX (SAGA) SAGAMI CHEM RES CENT.  
 XX  
 XX PI Kato S, Kimura T, Nakamura N, Sekine S;  
 XX  
 XX DR WPI; 1999-527617/44.  
 DR N-PSDB; AAZ11179, AAZ11186.  
 XX  
 XX PT New proteins and DNA useful for preventing tumours  
 XX  
 XX PS Claim 1; Page 72-73; 96pp; English.

CC This sequence is a human transmembrane protein of the invention. The  
 CC DNAs are useful for expressing recombinant protein for analysis,  
 CC characterisation or therapeutic use, and are useful as markers for  
 CC tissues in which the corresponding protein is preferentially expressed.  
 CC They are also useful as molecular weight markers on Southern gels, as  
 CC chromosome markers or tags (when labelled) to identify potential genetic  
 CC disorders, as probes to hybridise and thus discover novel, related DNA  
 CC sequences, as a source of PCR primers for genetic fingerprinting, as  
 CC probes to subtract-out known sequences in the process of discovering  
 CC other novel DNAs, for selecting and making oligomers for attachment to a  
 CC gene chip or other support, including for examination of expression  
 CC patterns, to raise anti-protein antibodies using DNA immunisation  
 CC techniques, and as an antigen to raise anti-DNA antibodies or elicit  
 CC another immune response. Where the DNA encodes a protein which binds to  
 CC another protein (e.g. in a receptor-ligand interaction), the DNA can also  
 CC be used in interaction trap assays to identify DNAs encoding the other  
 CC protein with which binding occurs or to identify inhibitors of the  
 CC binding interaction. The DNAs and proteins can have e.g. nutritional  
 CC activity, cytokine and cell proliferation/differentiation activity,  
 CC immune stimulating (e.g. as vaccines) or suppressing activity,  
 CC haematopoiesis regulating activity, tissue growth activity,  
 CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic  
 CC and thrombolytic activity, receptor/ligand activity, anti-inflammatory  
 CC activity, cadherin/tumour invasion suppressor activity, and tumour  
 CC inhibition activity.

XX Sequence 144 AA;

Query Match 100.0%; Score 784; DB 20; Length 144;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-8;  
 Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MAFTFAACFYMLALLTAAIFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLYLTHA 60  
 DB 1 MAFTFAACFYMLALLTAAIFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLYLTHA 60  
 QY 61 FFCVFLCAAEWLTGLNPLLAYHIWYMRPVMGSLYDPTTINMADILAYCQKEGW 120  
 DB 61 FFCVFLCAAEWLTGLNPLLAYHIWYMRPVMGSLYDPTTINMADILAYCQKEGW 120  
 QY 121 CKLAFYLLAFFYLYGMIVLVSS 144  
 DB 121 CKLAFYLLAFFYLYGMIVLVSS 144

# RESULT 5

ID AAB44288 standard; Protein; 144 AA.  
 XX  
 AC AAB44288;  
 XX  
 DT 08-FEB-2001 (first entry)  
 XX  
 DE Human PRO181 (UNQ155) protein sequence SEQ ID NO:322.  
 XX  
 DE Human; secreted protein; transmembrane protein; PRO; EST; cytosstatic;  
 KW expressed sequence tag; detection; cancer.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200053756-A2.  
 XX  
 XX PD 14-SEP-2000.  
 XX  
 XX PF 18-FEB-2000; 2000WO-US04341.  
 XX  
 XX PR 08-MAR-1999; 99WO-US05028.  
 PR 12-MAR-1999; 99US-0123957.  
 PR 29-MAR-1999; 99US-0126773.  
 PR 21-APR-1999; 99US-0130232.  
 PR 28-APR-1999; 99US-0131445.  
 PR 14-MAY-1999; 99US-0134287.  
 PR 23-JUN-1999; 99US-0141037.  
 PR 26-JUL-1999; 99US-0145698.  
 PR 30-OCT-1999; 99US-0162506.  
 PR 30-NOV-1999; 99WO-US28313.  
 PR 02-DEC-1999; 99WO-US28551.  
 PR 02-DEC-1999; 99WO-US28565.  
 PR 16-DEC-1999; 99WO-US30095.  
 PR 30-DEC-1999; 99WO-US31243.  
 PR 30-DEC-1999; 99WO-US31274.  
 PR 05-JAN-2000; 2000WO-US00219.  
 PR 06-JAN-2000; 2000WO-US00277.  
 PR 06-JAN-2000; 2000WO-US00376.  
 XX  
 XX (GETH) GENENTECH INC.  
 XX  
 XX PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
 PI Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;  
 PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA;  
 PI Shelton DL, Stewart TA, Tumas D, Williams PM, Wood WI;  
 XX WPI; 2000-611443/58.  
 DR N-PSDB; AAC78538.  
 XX  
 XX Novel PRO polypeptides and polynucleotides used in detection methods,  
 PT to target bioactive molecules to specific cells, and to modulate  
 PT cellular activities -  
 XX  
 XX Claim 12; Fig 129; 636pp; English.  
 XX  
 XX AAC78458 to AAC78599 represent polynucleotide and EST (expressed  
 CC sequence tag) sequences which encode secreted or transmembrane PRO  
 CC polypeptides. The PRO polynucleotides and polypeptides have cytostatic  
 CC activity. The polynucleotides and polypeptides can be used for detecting  
 CC the presence of PRO polypeptides in samples, for linking bioactive  
 CC molecules to cells and for modulating biological activities of cells,  
 CC using the polypeptides for specific targeting. The polypeptide targeting  
 CC can be used to kill the target cells, e.g. for the treatment of cancers.  
 CC The polypeptide pairs provide specific targeting of bioactive molecules  
 CC to cells. AAC78600 to AAC78987 represent PCR primers and probes used in  
 CC the isolation of the PRO polynucleotide sequences.  
 XX  
 XX Sequence 144 AA;  
 SQ  
 Query Match 100.0%; Score 784; DB 21; Length 144;

Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
 Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAFTFAFCYMLALLTAALFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLYPEYLIHA 60  
 |||||  
 DB 1 MAFTFAFCYMLALLTAALFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLYPEYLIHA 60  
 |||||

QY 61 FFCVMFLCAAEWLTLGLNMPLLAYHIWYMRPVMGSLYDPTTMMADILAYCQKEGW 120  
 |||||  
 DB 61 FFCVMFLCAAEWLTLGLNMPLLAYHIWYMRPVMGSLYDPTTMMADILAYCQKEGW 120  
 |||||

QY 121 CKLAFYLLAFYYLYGMIYVLVSS 144  
 |||||  
 DB 121 CKLAFYLLAFYYLYGMIYVLVSS 144  
 |||||

RESULT 6  
 AAB19524  
 ID AAB19524 standard; Protein; 144 AA.

AC AAB19524;  
 DT 09-JAN-2001 (first entry)  
 XX Antitumour PRO181 protein.  
 XX PRO181; antitumour; antiproliferative; human; cancer; therapy;  
 KW drug screening.  
 KW Homo sapiens.  
 OS  
 YX

Key Location/Qualifiers  
 FT Peptide 1..20  
 FT /label= Signal\_peptide  
 FT Domain 11..31  
 FT /label= Type-II\_transmembrane\_domain  
 FT Domain 57..77  
 FT /label= Transmembrane\_domain  
 FT Domain 123..143  
 FT /label= Transmembrane\_domain  
 FT Modified-site 96..100  
 FT /note= "Glycosaminoglycan attachment site"

WO2000053751-A1.  
 XX  
 XX 14-SEP-2000.  
 XX  
 XX 30-DEC-1999; 99WO-US31243.  
 XX  
 PR 08-MAR-1999; 99WO-US05028.  
 PR 29-MAR-1999; 99US-0126773.  
 PR 20-JUL-1999; 99US-0144758.  
 PR 08-SEP-1999; 99WO-US20594.  
 PR 20-DEC-1999; 99WO-US30999.  
 XX  
 XX (GETH ) GENENTECH INC.  
 XX  
 XX Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Napier MA, Wood WI;  
 PI WPI; 2000-594321/56.  
 DR N-PSDB; AAA88439.  
 DR

Novel PRO181 and PRO237 polypeptides useful for treating tumors  
 including cancers of breast, prostate, lung, leukemia in humans and for  
 identifying compounds capable of inhibiting growth of neoplastic cells

Claim 19; Fig 2; 107pp; English.  
 PS  
 XX The present sequence is that of human PRO181 a novel inhibitor of  
 CC neoplastic cell growth. The sequence was deduced from a cDNA clone  
 CC (see AAA88439) isolated from a placental cDNA library. It shows  
 CC significant sequence similarity to cornichon protein. The

CC invention provides PRO181 and PRO237 (see AAB19525) polypeptides and  
 CC polynucleotides, vectors, host cells, methods for their production,  
 CC chimeric molecules and antibodies. Also claimed is a composition  
 CC comprising PRO181 or PRO237, or their agonists, useful for the  
 CC treatment of a tumour, especially breast cancer, ovarian cancer,  
 CC renal cancer, colorectal cancer, uterine cancer, prostate cancer,  
 CC lung cancer, bladder cancer, central nervous system cancer,  
 CC melanoma and leukaemia. PRO181 and PRO237 are also useful for  
 CC treating neuronal, glial, astrocytal, hypothalamic and other  
 CC glandular, macrophagal, epithelial, stromal, and blastocoealic  
 CC disorders and inflammatory, angiogenic and immunologic disorders.  
 CC They are useful for identifying agonists to PRO181 or PRO237 in  
 CC drug screening and rational drug design.

SQ Sequence 144 AA;  
 Query Match 100.0%; Score 784; DB 21; Length 144;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
 Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAFTFAFCYMLALLTAALFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLYPEYLIHA 60  
 |||||  
 DB 1 MAFTFAFCYMLALLTAALFFAIWHIIAFDELKTDYKNPIDQCNTLNPLVLYPEYLIHA 60  
 |||||

QY 61 FFCVMFLCAAEWLTLGLNMPLLAYHIWYMRPVMGSLYDPTTMMADILAYCQKEGW 120  
 |||||  
 DB 61 FFCVMFLCAAEWLTLGLNMPLLAYHIWYMRPVMGSLYDPTTMMADILAYCQKEGW 120  
 |||||

QY 121 CKLAFYLLAFYYLYGMIYVLVSS 144  
 |||||  
 DB 121 CKLAFYLLAFYYLYGMIYVLVSS 144  
 |||||

RESULT 7  
 AAM93330  
 ID AAM93330 standard; Protein; 144 AA.

AC AAM93330;  
 DT 06-NOV-2001 (first entry)  
 XX Human polypeptide, SEQ ID NO: 2859.  
 DE Human; full length cDNA; cDNA synthesis; oligo-capping.  
 XX Homo sapiens.  
 XX OS  
 XX EP1130094-A2.  
 XX  
 XX 05-SEP-2001.  
 XX  
 XX 07-JUL-2000; 2000EP-0114089.  
 XX  
 XX 08-JUL-1999; 99JP-0194486.  
 XX 11-JAN-2000; 2000JP-0118774.  
 XX 02-MAY-2000; 2000JP-0183765.  
 XX  
 XX (HELI-) HELIX RES INST.  
 XX  
 XX Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y;  
 PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;  
 XX WPI; 2001-524255/58.  
 XX N-PSDB; AAK94250.  
 XX

830 Primers useful for synthesizing full length cDNA clones and their  
 use in genetic manipulation -  
 PT  
 PT  
 XX Claim 8; SEQ ID NO 2859; 1380pp + sequence listing; English.  
 PS  
 XX The invention relates to primers for synthesising full length cDNA  
 CC clones. 830 cDNA molecules encoding a human protein have been  
 CC isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA

CC molecules have been determined. Primers for synthesising the full length  
 CC cDNA are useful for clarifying the function of the protein encoded by  
 CC the cDNA. The full length clones were obtained by construction of full  
 CC length enriched cDNA libraries that were synthesised by the oligo-capping  
 CC method. The primers enable the production of the full length cDNA easily  
 CC without any special methods. The present sequence is a polypeptide  
 CC encoded by a full length human cDNA of the invention.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in CD-ROM format directly from EPO.

XX Sequence 144 AA;  
 SQ Query Match 100.0%; Score 784; DB 22; Length 144;  
 CC Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
 CC Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MAFTFAAFYCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQNTLNPLVPEYLIIHA 60  
 CC |||||  
 Db 1 MAFTFAAFYCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQNTLNPLVPEYLIIHA 60  
 CC |||||  
 QY 61 FFCVMFLCAAEEWLTGLNMPLLAYHIWYMSRPVMSGPGLYDPTTMMNADILAYCQKEGW 120  
 CC |||||  
 Db 61 FFCVMFLCAAEEWLTGLNMPLLAYHIWYMSRPVMSGPGLYDPTTMMNADILAYCQKEGW 120  
 CC |||||  
 QY 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
 CC |||||  
 Db 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
 CC |||||

RESULT 8  
 AAB76851  
 ID AAB76851 standard; Protein; 144 AA.  
 XX AAB76851;  
 XX  
 DT 12-APR-2001 (first entry)  
 DE Human lung tumour protein related protein sequence SEQ ID NO:327.  
 XX Human; lung cancer; lung tumour; lung tumour protein; gene therapy;  
 KW lung cancer antigen; lung tumour-specific antigen; diagnosis; vaccine;  
 KW cytostatic; antisense inhibition.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200100828-A2.  
 XX  
 XX 04-JAN-2001.  
 XX  
 XX 30-JUN-2000; 2000WO-US18061.  
 XX  
 XX 30-JUN-1999; 99US-0346492.  
 PR 15-OCT-1999; 99US-0419356.  
 PR 17-DEC-1999; 99US-0466867.  
 PR 30-DEC-1999; 99US-0476300.  
 PR 06-MAR-2000; 2000US-0519642.  
 PR 22-MAR-2000; 2000US-0533077.  
 PR 10-APR-2000; 2000US-0546259.  
 PR 27-APR-2000; 2000US-0560406.  
 PR 05-JUN-2000; 2000US-0589184.  
 XX  
 XX (CORI-) CORIXA CORP.  
 XX  
 XX Wang T, Bangur CS, Lodes MJ, Fanger GR, Vedvick TS, Carter D;  
 PI Retter MW, Mannion J;  
 XX  
 XX WPI; 2001-071488/08.  
 XX  
 XX Lung tumor-associated proteins and the nucleic acids that encode them,  
 PT useful for preventing, diagnosing and treating lung cancer -  
 XX  
 XX Example 1; Page 254; 436pp; English.

CC The present invention describes immunogenic portions of lung tumour-  
 CC associated proteins (I) and the nucleic acids (NAs) that encode them.  
 CC (I) have cytostatic activity and can be used in gene therapy, antisense  
 CC inhibition and in vaccines. The NAs and the lung tumour-associated  
 CC proteins they encode may be used in the prevention, treatment and  
 CC diagnosis of diseases associated with their inappropriate expression,  
 CC especially lung cancers. For example, the NAs may be administered to  
 CC treat diseases by rectifying mutations or deletions in a patient's genome  
 CC that affect the activity of the protein by expressing inactive proteins  
 CC or to supplement the patients own production of (I). Additionally, the  
 CC NAs may be used to produce the lung-tumour associated protein, according  
 CC to standard recombinant DNA methodology. Conversely, antisense NA  
 CC molecules may be administered to down regulate protein expression by  
 CC binding with the cells own genes and preventing their expression. The NA  
 CC and complementary sequences may also be used as DNA probes in diagnostic  
 CC assays to detect and quantitate the presence of similar NA sequences in  
 CC samples, and hence which patients may be in need of treatment for lung  
 CC cancer. The (I) may be used as antigens in the production of antibodies  
 CC and in assays to identify modulators (agonists and antagonists) of the  
 CC expression and activity of the protein. AAF68083 to AAF68878 and  
 CC AAB76848 to AAB76878 represent human lung tumour protein related  
 CC nucleotide and protein sequences which are used in the exemplification  
 CC of the present invention.

XX Sequence 144 AA;  
 SQ Query Match 100.0%; Score 784; DB 22; Length 144;  
 CC Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
 CC Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MAFTFAAFYCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQNTLNPLVPEYLIIHA 60  
 CC |||||  
 Db 1 MAFTFAAFYCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQNTLNPLVPEYLIIHA 60  
 CC |||||  
 QY 61 FFCVMFLCAAEEWLTGLNMPLLAYHIWYMSRPVMSGPGLYDPTTMMNADILAYCQKEGW 120  
 CC |||||  
 Db 61 FFCVMFLCAAEEWLTGLNMPLLAYHIWYMSRPVMSGPGLYDPTTMMNADILAYCQKEGW 120  
 CC |||||  
 QY 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
 CC |||||  
 Db 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
 CC |||||

RESULT 9  
 ABG31481  
 ID ABG31481 standard; Protein; 144 AA.  
 XX ABG31481;  
 XX  
 DT 20-NOV-2002 (first entry)  
 DE Human cornichon protein (CORN).  
 XX  
 XX Human; cornichon protein; CORN; bladder cDNA library; BLADNOT04;  
 KW Incyte clone 1318847; developmental disorder; reproductive disorder;  
 KW immunological disorder; autoimmune disorder; neoplastic disorder;  
 KW microarray; cytostatic; antiinflammatory; gynaecological;  
 KW immunosuppressive.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2002103342-A1.  
 XX  
 XX 01-AUG-2002.  
 XX  
 XX 10-JAN-2002; 2002US-0044477.  
 XX  
 XX 14-OCT-1997; 97US-0950168.  
 PR 02-AUG-1999; 99US-0365705.  
 XX  
 XX (INCY-) INCYTE PHARM INC.  
 XX  
 XX Hillman JL, Corley NC, Shah P;



XX WPI; 2002-690628/74.  
 DR N-PSDB; ABK91098.  
 XX  
 PT New human cornichon protein and polynucleotide for diagnosing,  
 PT preventing or treating developmental, reproductive, immunological, and  
 PT neoplastic disorders -  
 XX  
 PS Claim 1; Fig 1; 32pp; English.  
 XX  
 CC The present invention relates to the isolation of human cornichon  
 CC protein (CORN), and the polynucleotide sequence encoding it. The  
 CC sequences are isolated from bladder cDNA library (SLADN004) Incyte  
 CC clone 1318847. The polynucleotide and polypeptide sequences for  
 CC CORN are useful in the diagnosis, prevention, and treatment of  
 CC developmental disorders (e.g. anaemia, renal tubular acidosis,  
 CC Cushing's syndrome, dwarfism, epilepsy, hypothyroidism, glaucoma,  
 CC sensorineural hearing loss and cataract), reproductive disorders  
 CC (e.g. disorders of prolactin production, infertility, endometriosis,  
 CC polycystic ovary syndrome, endometrial and ovarian tumours, ectopic  
 CC pregnancy, prostate cancer, prostatitis, and carcinoma of the male  
 CC breast and gynaecomastia), immunological disorders (e.g. autoimmune  
 CC disorders, acquired immunodeficiency syndrome (AIDS), adult  
 CC respiratory distress syndrome, Addison's disease, allergies, anaemia,  
 CC asthma, atherosclerosis, gout, myocardial or pericardial inflammation,  
 CC osteoporosis, rheumatoid arthritis, scleroderma, systemic lupus  
 CC erythematosus, ulcerative colitis, haemodialysis, Crohn's disease,  
 CC atopic dermatitis, autoimmune thyroiditis, diabetes mellitus, Graves'  
 CC disease, glomerulonephritis, viral, bacterial, fungal, parasitic,  
 CC protozoal, helminthic infections and trauma), and neoplastic disorders  
 CC (e.g. adenocarcinoma, leukaemia, lymphoma, melanoma, and various  
 CC cancers). CORN, fragments of CORN, and antibodies specific for CORN  
 CC are useful as elements on a microarray which is useful to monitor or  
 CC measure protein-protein interactions, drug-target interactions and  
 CC gene expression profiles. The present sequence represents human CORN.  
 XX  
 SQ Sequence 144 AA;  
 Query Match 100.0%; Score 784; DB 23; Length 144;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
 Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MAFTFAACVYMLALLTAALFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLPYLIHA 60  
 DB 1 MAFTFAACVYMLALLTAALFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVLPYLIHA 60  
 QY 61 FFCVWFLCAEWLTGLNMPFLAYHIWYMRPVMSPGGLYDPTTINMADILAYCQKEGW 120  
 DB 61 FFCVWFLCAEWLTGLNMPFLAYHIWYMRPVMSPGGLYDPTTINMADILAYCQKEGW 120  
 QY 121 CKLAFYLLAPFYLYGMIYVLVSS 144  
 DB 121 CKLAFYLLAPFYLYGMIYVLVSS 144  
 RESULT 10  
 ID ABB95423  
 XX ABB95423 standard; Protein; 144 AA.  
 XX  
 AC ABB95423;  
 XX  
 XX  
 DT 19-JUL-2002 (first entry)  
 XX  
 DE Human angiogenesis related protein PRO181 SEQ ID NO: 2.  
 XX  
 KW Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;  
 KW atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;  
 KW caridant; cycostatic; antiangiogenic; hypotensive; vulnerary;  
 KW antiarteriosclerotic.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200208284-A2.  
 PN

XX 31-JAN-2002.  
 PD  
 XX  
 XX 09-JUL-2001; 2001WO-US21735.  
 XX  
 XX 20-JUL-2000; 2000US-219556P.  
 PR 25-JUL-2000; 2000US-220624P.  
 PR 25-JUL-2000; 2000US-220664P.  
 PR 28-JUL-2000; 2000WO-US20710.  
 PR 02-AUG-2000; 2000US-222695P.  
 PR 17-AUG-2000; 2000US-0643657.  
 PR 23-AUG-2000; 2000WO-US23522.  
 PR 24-AUG-2000; 2000WO-US23328.  
 PR 07-SEP-2000; 2000US-230978P.  
 PR 15-SEP-2000; 2000US-000000P.  
 PR 18-SEP-2000; 2000US-0665350.  
 PR 18-SEP-2000; 2000US-0664610.  
 PR 24-OCT-2000; 2000US-243922P.  
 PR 08-NOV-2000; 2000US-0709238.  
 PR 08-NOV-2000; 2000WO-US30952.  
 PR 10-NOV-2000; 2000WO-US30873.  
 PR 01-DEC-2000; 2000WO-US32678.  
 PR 20-DEC-2000; 2000US-0747259.  
 PR 20-DEC-2000; 2000WO-US34956.  
 PR 22-JAN-2001; 2001US-0767609.  
 PR 28-FEB-2001; 2001US-0796498.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 01-MAR-2001; 2001WO-US06666.  
 PR 09-MAR-2001; 2001US-0802706.  
 PR 14-MAR-2001; 2001US-0808689.  
 PR 22-MAR-2001; 2001US-0816744.  
 PR 05-APR-2001; 2001US-0828366.  
 PR 10-MAY-2001; 2001US-0854208.  
 PR 10-MAY-2001; 2001US-0854280.  
 PR 25-MAY-2001; 2001US-0866028.  
 PR 25-MAY-2001; 2001US-0866034.  
 PR 25-MAY-2001; 2001WO-US17092.  
 PR 30-MAY-2001; 2001US-0870574.  
 PR 30-MAY-2001; 2001WO-US17443.  
 PR 01-JUN-2001; 2001WO-US17800.  
 PR 20-JUN-2001; 2001WO-US19692.  
 PR 28-JUN-2001; 2001WO-US00000.  
 XX  
 XX (GETH ) GENENTECH INC.  
 PA (BAKE/) BAKER K P.  
 PA (FERR/) FERRARA N.  
 PA (GERB/) GERBER H.  
 PA (GERR/) GERRITSEN M E.  
 PA (GODD/) GODDARD A.  
 PA (GODO/) GODOWSKI P J.  
 PA (GURN/) GURNEY A L.  
 PA (HILL/) HILLAN K J.  
 PA (MARS/) MARSTERS S A.  
 PA (PANJ/) PAN J.  
 PA (PAON/) PAONI N F.  
 PA (STEP/) STEPHAN J F.  
 PA (WATA/) WATANABE C K.  
 PA (WILL/) WILLIAMS P M.  
 PA (WOOD/) WOOD W I.  
 XX Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;  
 PI Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;  
 PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;  
 XX  
 XX WPI; 2002-171999/22.  
 DR N-PSDB; ABL95561.  
 DR  
 XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,  
 XX useful in diagnosis and treatment of cardiovascular (e.g. myocardial  
 XX infarction), endothelial or angiogenic disorders in a mammal -  
 XX  
 PS Claim 11; Fig 2; 567pp; English.  
 XX

CC The present invention provides the protein and coding sequences of human  
 CC PRO proteins. These are useful for treating or diagnosing a  
 CC cardiovascular, endothelial or angiogenic disorder, including cardiac  
 CC hypertrophy, trauma, cancer, age-related macular degeneration,  
 CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,  
 CC angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour  
 CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound  
 CC healing. The present sequence is a PRO protein of the invention.

XX Sequence 144 AA;  
 SQ Query Match 100.0%; Score 784; DB 23; Length 144;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
 Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MAFTFAAFYCYMLALLTAALFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVPEYLIHA 60  
 DB 1 MAFTFAAFYCYMLALLTAALFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVPEYLIHA 60  
 QY 61 FFCVWFLCAAEWLTGLNMPLLAYHIWYMSRPVMSGGLYDPTTINMADILAYCQKEGW 120  
 DB 61 FFCVWFLCAAEWLTGLNMPLLAYHIWYMSRPVMSGGLYDPTTINMADILAYCQKEGW 120  
 QY 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
 DB 121 CKLAFYLLAFFYLYGMIYVLVSS 144

RESULT 11  
 AAE20143  
 ID AAE20143 standard; Protein; 144 AA.  
 AC AAE20143;  
 DT 18-JUN-2002 (first entry)  
 DE Human cornichon protein (CORN).

XX Human; cornichon protein; CORN; Cushing's syndrome; muscular dystrophy;  
 KW developmental disorder; neoplastic; seizure; reproductive; immunological;  
 KW tubular acidosis; anaemia; polycystic ovary; autoimmune disorder; tumour;  
 KW breast cancer; prostate; testis; epilepsy; neuropathy; Addison's disease;  
 KW ulcerative colitis; spermatogenesis; hypothyroidism; cataract; arthritis;  
 KW infertility; galactorrhea; gynaeomastia; diabetes mellitus; fungicide;  
 KW dermatitis; acquired immunodeficiency syndrome; AIDS; glomerulonephritis;  
 KW atherosclerosis; allergy; asthma; bronchitis; Crohn's disease; auditory;  
 KW gout; Graves' disease; multiple sclerosis; haemodialysis; anticonvulsant;  
 KW trauma; drug screening; ophthalmological; cytostatic; immunosuppressive;  
 KW gynaecological; antiulcer; nephrotropic; neuroprotective; antihelminthic;  
 KW antibacterial; tranquilizer; osteoporosis; antiparasitic; protozoacide;  
 KW vulnerary; virucide; gene therapy.

XX Homo sapiens.  
 XX US6348576-B1.  
 XX 19-FEB-2002.  
 XX 02-AUG-1999; 99US-0365705.  
 XX 14-OCT-1997; 97US-0950168.  
 XX (INCY-) INCYTE GENOMICS INC.  
 XX Hillman JL, Corley NC, Shah P;  
 XX WPI; 2002-266544/31.  
 XX N-PSDB; AAD31079.

XX New human cornichon protein, useful for diagnosis, prevention and  
 XX treatment of developmental, reproductive, immunological and neoplastic  
 XX disorders and to screen for molecules that bind the protein

PS Claim 1; Fig 2; 29pp; English.

XX The invention relates to a purified human cornichon protein (CORN). CORN  
 CC is useful for diagnosis, prevention and treatment of developmental,  
 CC reproductive, immunological and neoplastic disorders. Developmental,  
 CC disorders include renal tubular acidosis, anaemia, Cushing's syndrome,  
 CC achondroplastic dwarfism, Duchenne and Becker muscular dystrophy,  
 CC epilepsy, hereditary neuropathies such as Charcot-Marie-Tooth disease,  
 CC neurofibromatosis, hypothyroidism, seizure disorders such as cerebral  
 CC palsy, cataract and sensorineural hearing loss and reproductive disorders  
 CC include disorders of prolactin production, infertility, ovulatory  
 CC defects, endometriosis, disruptions of the oestrous cycle, disruptions of  
 CC the menstrual cycle, polycystic ovary syndrome, endometrial and ovarian  
 CC tumours, autoimmune disorders, ectopic pregnancy, cancer of the breast,  
 CC galactorrhea, disruptions of spermatogenesis, cancer of the testis,  
 CC cancer of the prostate, prostatitis and carcinoma of the male breast and  
 CC gynaeomastia. Immunological disorders include acquired immunodeficiency  
 CC syndrome (AIDS), diabetes mellitus, arthritis, including rheumatoid  
 CC arthritis, osteoarthritis, Addison's disease, allergic colitis, asthma,  
 CC atherosclerosis, bronchitis, Crohn's disease, ulcerative colitis, atopic  
 CC dermatitis, glomerulonephritis, gout, Graves' disease, multiple  
 CC sclerosis, osteoporosis, autoimmune thyroiditis, complications of cancer,  
 CC haemodialysis and extracorporeal circulation, viral bacterial, fungal,  
 CC parasitic, protozoal and helminthic infections, and trauma. CORN is  
 CC catalytic or immunogenic fragments is useful for screening libraries of  
 CC compounds in a variety of drug screening techniques. The present  
 CC sequence is human CORN. CORN gene is useful in gene therapy.

XX Sequence 144 AA;

Query Match 100.0%; Score 784; DB 23; Length 144;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
 Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAFTFAAFYCYMLALLTAALFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVPEYLIHA 60  
 DB 1 MAFTFAAFYCYMLALLTAALFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVPEYLIHA 60  
 QY 61 FFCVWFLCAAEWLTGLNMPLLAYHIWYMSRPVMSGGLYDPTTINMADILAYCQKEGW 120  
 DB 61 FFCVWFLCAAEWLTGLNMPLLAYHIWYMSRPVMSGGLYDPTTINMADILAYCQKEGW 120  
 QY 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
 DB 121 CKLAFYLLAFFYLYGMIYVLVSS 144

RESULT 12

AAU85506  
 ID AAU85506 standard; Protein; 144 AA.

XX AAU85506;  
 XX 21-MAY-2002 (first entry)  
 XX Clone #19110 of lung tumour protein.  
 XX Lung tumour; cancer; T cell; immune response stimulator;  
 XX cytostatic.  
 XX Homo sapiens.  
 XX WO200204514-A2.  
 XX 17-JAN-2002.  
 XX 10-JUL-2001; 2001WO-US22058.  
 XX 11-JUL-2000; 2000US-0614124.  
 XX 29-AUG-2000; 2000US-0651563.  
 XX 08-SEP-2000; 2000US-0658824.  
 XX 26-SEP-2000; 2000US-0671325.  
 XX 06-OCT-2000; 2000US-0677419.

PR 30-OCT-2000; 2000US-0702705.  
 PR 13-DEC-2000; 2000US-0736457.  
 PR 03-MAY-2001; 2001US-0849626.  
 XX (CORI-) CORIXA CORP.  
 PA Wang T, Watanabe Y, Henderson RA, Johnson JC, Retter MW;  
 XX Marnerakis M, Carter D, Fanger GR, Vedvick TS, Bangur CS;  
 PI McNabb A, Wang A, Fanger N, Switzer A, McNeill PD, Clapper JD;  
 XX WPI; 2002-164634/21.  
 DR N-PSDB; ABK38061.  
 XX Novel polynucleotide encoding a lung tumour polypeptide useful for  
 PT stimulating and/or expanding T cells specific for a tumour protein -  
 XX Example 1; SEQ ID No 327; 223pp; English.  
 CC The invention describes an isolated polynucleotide and polypeptide  
 CC useful for stimulating and/or expanding T cells specific for a tumour  
 CC protein for determining the presence of a cancer in a patient. A  
 CC composition containing the polynucleotide and/or polypeptide is useful  
 CC for treating a lung cancer in a patient. The polypeptide is useful for  
 CC removing tumour cells from a biological sample. The polynucleotide is  
 CC also useful as probe or primer to detect the level of mRNA encoding a  
 CC tumour protein. This is the amino acid sequence of a lung tumour  
 CC associated protein, described in the method of the invention.  
 CC Note: The sequence data for this patent did not form part of the  
 CC printed specification, but was obtained in electronic format directly  
 CC from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences.  
 XX  
 SQ Sequence 144 AA;  
 \* Query Match 100.0%; Score 784; DB 23; Length 144;  
 \* Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
 Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 MAFTFAAFVCMALLLTAALFFAIWHIIAFDELKTDYKNPFDQCNTLNPLVPEYLHA 60  
 Db 1 MAFTFAAFVCMALLLTAALFFAIWHIIAFDELKTDYKNPFDQCNTLNPLVPEYLHA 60  
 Qy 51 FFCVMFLCAEWLTLGLNPLLAYHWRMSPVMSGPGLYDPTTINADILAYCQKEGW 120  
 Db 61 FFCVMFLCAEWLTLGLNPLLAYHWRMSPVMSGPGLYDPTTINADILAYCQKEGW 120  
 Qy 121 CKLAFYLLAFYYLYGMIYVLVSS 144  
 Db 121 CKLAFYLLAFYYLYGMIYVLVSS 144  
 RESULT 13  
 ABB84817  
 ID ABB84817 standard; Protein; 144 AA.  
 XX  
 AC ABB84817;  
 XX  
 DT 16-MAY-2002 (first entry)  
 XX  
 DE Human PRO181 protein sequence SEQ ID NO:2.  
 XX  
 KW Human; angiogenesis; cardiant; cytostatic; antiangiogenic; hypotensive;  
 KW vulnery; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;  
 KW gene therapy; cardiovascular disorder; endothelial disorder; cancer;  
 KW angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;  
 KW age-related macular degeneration; arterial restenosis; angina;  
 KW rheumatoid arthritis; myocardial infarction; thrombophlebitis;  
 KW lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;  
 KW wound healing; chromosome mapping; gene mapping.  
 XX Homo sapiens.  
 OS  
 XX WO200200690-A2.  
 PN

XX 03-JAN-2002.  
 XX 20-JUN-2001; 2001WO-US19692.  
 XX 23-JUN-2000; 2000US-213637P.  
 PR 20-JUL-2000; 2000US-219556P.  
 PR 25-JUL-2000; 2000US-220624P.  
 PR 25-JUL-2000; 2000US-220664P.  
 PR 28-JUL-2000; 2000WO-US20710.  
 PR 02-AUG-2000; 2000US-222695P.  
 PR 17-AUG-2000; 2000US-0643657.  
 PR 23-AUG-2000; 2000WO-US23522.  
 PR 24-AUG-2000; 2000WO-US23328.  
 PR 07-SEP-2000; 2000US-230978P.  
 PR 18-SEP-2000; 2000US-0664610.  
 PR 18-SEP-2000; 2000US-0665350.  
 PR 24-OCT-2000; 2000US-242922P.  
 PR 08-NOV-2000; 2000US-0709238.  
 PR 08-NOV-2000; 2000WO-US30952.  
 PR 10-NOV-2000; 2000WO-US30873.  
 PR 01-DEC-2000; 2000WO-US32678.  
 PR 20-DEC-2000; 2000US-0747259.  
 PR 20-DEC-2000; 2000WO-US34956.  
 PR 22-JAN-2001; 2001US-0767609.  
 PR 28-FEB-2001; 2001US-0796498.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 01-MAR-2001; 2001WO-US06666.  
 PR 09-MAR-2001; 2001US-0802706.  
 PR 14-MAR-2001; 2001US-0808689.  
 PR 22-MAR-2001; 2001US-0816744.  
 PR 05-APR-2001; 2001US-0828366.  
 PR 10-MAY-2001; 2001US-0854208.  
 PR 10-MAY-2001; 2001US-0854280.  
 PR 25-MAY-2001; 2001US-0866028.  
 PR 25-MAY-2001; 2001US-0866034.  
 PR 30-MAY-2001; 2001WO-US17092.  
 PR 30-MAY-2001; 2001US-0870574.  
 PR 01-JUN-2001; 2001WO-US17443.  
 PR 01-JUN-2001; 2001WO-US17800.  
 (GETH ) GENENTECH INC.

Baker KP, Ferrara N, Gerber H, Gertsens ME, Goddard A;  
 Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;  
 Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;  
 WPI; 2002-090516/12.  
 N-PSDB; ABL88072.

One hundred and eighty seven nucleic acids encoding PRO polypeptides,  
 useful in diagnosis and treatment of cardiovascular (e.g. myocardial  
 infarction), endothelial or angiogenic disorders in a mammal -

Claim 11; Fig 2; 565pp; English.

ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to  
 ABB85003. The PRO proteins and polynucleotides have cardiant, cytostatic,  
 antiangiogenic, hypotensive, vulnery and antiarteriosclerotic  
 activities, and can be used in gene therapy. The PRO polynucleotides,  
 proteins, agonists and antagonists are useful for treating or diagnosing  
 a cardiovascular, endothelial or angiogenic disorder in a mammal,  
 e.g. cardiac hypertrophy, trauma, cancer, age-related macular  
 degeneration, atherosclerosis, hypertension, arterial restenosis,  
 rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis,  
 lymphangitis, tumour angiogenesis (such as breast carcinoma and liver  
 carcinoma) and wound healing. The PRO polynucleotides have applications  
 in molecular biology, including use as hybridisation probes, and in  
 chromosome and gene mapping. ABL88259 to ABL88267 represent primers and  
 probes used in the exemplification of the present invention.

Sequence 144 AA;

Query Match 100.0%; Score 784; DB 23; Length 144;  
Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAFTFAAFYCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVPEYLIHA 60  
DB 1 MAFTFAAFYCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVPEYLIHA 60  
QY 61 FFCVMFLCAAELWTLGLNMPLLAYHIWYMSRPVMSGPGLYDPTTINMADILAYCQKEGW 120  
DB 61 FFCVMFLCAAELWTLGLNMPLLAYHIWYMSRPVMSGPGLYDPTTINMADILAYCQKEGW 120  
QY 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
DB 121 CKLAFYLLAFFYLYGMIYVLVSS 144

RESULT 14  
AAU83651  
ID AAU83651 standard; Protein; 144 AA.  
XX AC AAU83651;  
XX DT 08-MAY-2002 (first entry)  
XX DE Human PRO protein, Seq ID No 120.  
XX KW Human; secreted protein; PRO; tumour; lung cancer; colon cancer;  
XX KW breast cancer; prostate tumour; rectal tumour; liver tumour;  
XX KW pericyte cell proliferation; chondrocyte cell proliferation;  
XX KW tumour necrosis factor-alpha.  
XX OS Homo sapiens.  
XX RN WC200208288-A2.  
XX DP 31-JAN-2002.  
XX PF 29-JUN-2001; 2001WO-US21066.  
XX PR 20-JUL-2000; 2000US-219556P.  
XX PR 25-JUL-2000; 2000US-220585P.  
XX PR 25-JUL-2000; 2000US-220605P.  
XX PR 25-JUL-2000; 2000US-220607P.  
XX PR 25-JUL-2000; 2000US-220624P.  
XX PR 25-JUL-2000; 2000US-220636P.  
XX PR 25-JUL-2000; 2000US-220664P.  
XX PR 25-JUL-2000; 2000US-220666P.  
XX PR 26-JUL-2000; 2000US-220893P.  
XX PR 28-JUL-2000; 2000WO-US20710.  
XX PR 23-AUG-2000; 2000WO-US23522.  
XX PR 24-AUG-2000; 2000WO-US23348.  
XX PR 15-SEP-2000; 2000US-000000P.  
XX PR 10-NOV-2000; 2000WO-US30873.  
XX PR 28-NOV-2000; 2000US-253646P.  
XX PR 01-DEC-2000; 2000WO-US32678.  
XX PR 20-DEC-2000; 2000US-0747259.  
XX PR 20-DEC-2000; 2000WO-US34956.  
XX PR 28-FEB-2001; 2001WO-US06520.  
XX PR 10-MAY-2001; 2001US-0854280.  
XX PR 25-MAY-2001; 2001WO-US17092.  
XX PA (GETH ) GENENTECH INC.  
XX PA Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;  
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
XX WPI; 2002-172001/22.  
XX N-PSDB; ABK33595.  
XX One hundred and twenty two nucleic acids encoding PRO polypeptides,  
PT useful for treating a PRO related disorder and for diagnosing tumours  
PT such as lung cancer, colon cancer, breast tumour, prostate tumour, rectal

PT tumour or liver tumour -  
XX Claim 11; Figure 120; 359pp; English.  
XX The invention relates to one hundred and twenty two nucleic acids  
CC encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides  
CC encode human secreted proteins. The PRO nucleic acids, polypeptides,  
CC agonists and antagonists are useful for treating a PRO related disorder.  
CC The PRO polypeptides are useful for diagnosing tumours, especially lung  
CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or  
CC liver tumour. The PRO polypeptides are useful for stimulating the  
CC proliferation of, or gene expression in, pericyte cells, for  
CC stimulating the release of tumour necrosis factor-alpha from human blood,  
CC for stimulating or inhibiting the proliferation of normal human dermal  
CC fibroblast cells. The PRO polypeptide may also be used as molecular  
CC weight markers and for tissue typing. The PRO nucleic acids have  
CC applications in molecular biology, including use as hybridisation probes,  
CC and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO  
CC protein sequences of the invention.  
XX SQ Sequence 144 AA;  
Query Match 100.0%; Score 784; DB 23; Length 144;  
Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAFTFAAFYCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVPEYLIHA 60  
DB 1 MAFTFAAFYCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDOCNTLNPLVPEYLIHA 60  
QY 61 FFCVMFLCAAELWTLGLNMPLLAYHIWYMSRPVMSGPGLYDPTTINMADILAYCQKEGW 120  
DB 61 FFCVMFLCAAELWTLGLNMPLLAYHIWYMSRPVMSGPGLYDPTTINMADILAYCQKEGW 120  
QY 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
DB 121 CKLAFYLLAFFYLYGMIYVLVSS 144

RESULT 15  
ABU69478  
ID ABU69478 standard; Protein; 144 AA.  
XX AC ABU69478;  
XX DT 05-JUN-2003 (first entry)  
XX DE Human lung cancer associated cDNA #19110 protein.  
XX KW Human; lung cancer; lung tumour; cytostatic; vaccine;  
XX KW T cell expansion; CD4; CD8.  
XX OS Homo sapiens.  
XX PN US2002197669-A1.  
XX PD 26-DEC-2002.  
XX PF 03-MAY-2001; 2001US-0849626.  
XX PR 13-DEC-2000; 2000US-0736457.  
XX PA (BANG/) BANGUR C S.  
XX PA (FANG/) FANGER G R.  
XX PA (WANG/) WANG A.  
XX PA (WANG/) WANG T.  
XX PA (SWIT/) SWITZER A P.  
XX PA (MCNE/) MCNEILL P D.  
XX PA (CLAP/) CLAPPER J D.  
XX PA Bangur CS, Fanger GR, Wang A, Wang T, Switzer AP, McNeill PD;  
PI Clapper JD;

Search completed: September 11, 2003, 14:41:26  
Job time : 88 secs

XX WPI: 2003-352750/33.  
DR N-PSDB; ACA10390.  
XX  
PT Novel lung cancer polynucleotide encoding lung cancer protein, useful  
PT for detecting the presence of lung cancer in a patient, and in  
PT pharmaceutical compositions, e.g. vaccines, for treating lung cancer -  
XX  
PS Example 1: Page -; 72pp: English.  
XX  
CC The invention relates to a polynucleotide encoding a lung tumour protein,  
CC comprising a sequence selected from any of the 14 sequences  
CC mentioned in the specification, or a sequence (S2) mentioned in  
CC specification, complement of S1, sequences consisting of at least 20  
CC contiguous residues of S1, sequences that hybridise to S1, sequences  
CC having 75%, preferably 90%, identity to S1, or degenerate variants of  
CC S1. Also included are an isolated polypeptide (comprising a sequence (S3)  
CC selected from any one of the 4 amino acid sequences mentioned in the  
CC specification, a sequence encoded by the polynucleotide, or sequences  
CC having at least 70%, preferably 90%, identity to a sequence encoded by  
CC the polynucleotide), an expression vector comprising the polynucleotide  
CC operably linked to an expression control sequence, a host cell  
CC transformed or transfected with the vector, an isolated antibody (or its  
CC antigen-binding fragment) that specifically binds to the polypeptide,  
CC detecting the presence of a cancer in a patient, a fusion protein  
CC comprising the polypeptide, an oligonucleotide that hybridises to  
CC S1 under moderately stringent conditions, stimulating and/or expanding T  
CC cells specific for a tumour protein (comprising contacting T cells with  
CC the polynucleotide, protein or antigen-presenting cells, under conditions  
CC and for a time sufficient to permit the stimulation and/or expansion of T  
CC cells) and inhibiting the development of a cancer in a patient (by  
CC incubating CD4<sup>+</sup> and/or CD8<sup>+</sup> T cells isolated from a patient with the  
CC polynucleotide, protein or antigen presenting cells that express the  
CC polynucleotide, such that T cells proliferate, administering to the  
CC patient an effective amount of the proliferated T cells, and thus  
CC inhibiting the development of a cancer in the patient. The  
CC polynucleotide, protein and cells are useful in a composition for  
CC stimulating an immune response in a patient, and for treating a cancer in  
CC a patient (particularly lung cancer). The oligonucleotide is useful for  
CC determining the presence of a cancer in a patient. The protein and  
CC oligonucleotides are useful in pharmaceutical compositions, e.g.  
CC vaccines. The polynucleotide is also useful as a probe or primer for  
CC nucleic acid hybridisation, and in the design and preparation of  
CC ribozyme molecules for inhibiting expression of tumour polypeptides and  
CC proteins in tumour cells. An amplified portion of the polynucleotide is  
CC useful for isolating a full-length gene from a suitable library.  
CC The present sequence is a protein encoded by a cDNA (full length,  
CC extended or partial) isolated from a library derived from lung tumour/  
CC cancer cells.  
CC Note: The sequence data for this patent did not form part  
CC of the printed specification, but was obtained in electronic  
CC format directly from the USPTO  
CC at seqdata.uspto.gov/sequence.html?DocId=20020197669.  
XX  
SQ Sequence 144 AA;  
Query Match 100.0%; Score 784; DB 24; Length 144;  
Best Local Similarity 100.0%; Pred. No. 1.8e-85;  
Matches 144; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVPEYLIHA 60  
Db 1 MAFTFAAFCYMLALLTAALIFFAIWHIIAFDELKTDYKNPIDQCNLTNPLVPEYLIHA 60  
Qy 61 FFCVNFCAAEWLTGLNPLLAYHIWRYMRPVMSPGCLYDPTTIMNADILAYCQKEGW 120  
Db 61 FFCVNFCAAEWLTGLNPLLAYHIWRYMRPVMSPGCLYDPTTIMNADILAYCQKEGW 120  
Qy 121 CKLAFYLLAFFYLYGMIYVLVSS 144  
Db 121 CKLAFYLLAFFYLYGMIYVLVSS 144

THIS PAGE BLANK (USPTO)